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Solar - Geophysical Data

Part II (Comprehensive Reports)

NO. 463 MARCH 1983

DATA FOR
SEPTEMBER 1982
SEPTEMBER 1980

Michael A. Chinnery, Director
NATIONAL GEOPHYSICAL DATA CENTER
BOULDER, COLORADO

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SOLAR-GEOPHYSICAL DATA

No. 463

Issued in two parts

Helen E. Coffey, Editor

Joe H. Allen, Chief
Solar-Terrestrial Physics Division

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SGD 463 Part II (Comprehensive)

SEPTEMBER 1982 DATA

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SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

SEPTEMBER 1982

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean		
01	260	ONDR	44 NS	0549.0E	0900.0U	500.0D	36.0			
	204	IZMI	43 NS	0600.0		180.0	65.0			
	127	TORN	43 NS	0806.0	0852.6	215.0	60.0	.1		V=1
	245	SGMR	43 NS	1029.0	2127.6	749.0D	200.0			QL=6 ST=2 TYP=1
	208	VORO	44 NS	2200.0E		300.0D		12.0		
	245	LEAR	43 NS	2308.8	0131.1	648.2D	310.0			QL=6 ST=2 TYP=1
	245	LEAR	8 S	0006.8	0007.1	.3	39.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0007.1	0007.1	.2	10.0			QL=6 ST=2 TYP=3
	3750	TYKW	5 S	0045.0	0046.0	5.0	1.5	.7		
	9400	TYKW	20 GRF	0055.0	0117.0	85.0	8.0	4.0		
	3750	TYKW	20 GRF	0102.0	0114.0	75.0	6.0	3.0		
	2000	TYKW	20 GRF	0110.0	0125.0	75.0	2.0	1.0		
	1000	TYKW	5 S	0152.5	0153.3	2.0	4.0	1.0		
	2000	TYKW	20 GRF	0240.0	0255.0	40.0	2.0	1.0		
	3750	TYKW	20 GRF	0245.0	0259.0	30.0	2.0	1.0		
	3750	TYKW	21 GRF	0324.0	0412.0	155.0	8.0	4.0		
	2000	TYKW	21 GRF	0340.0	0413.0	200.0	4.0	1.5		
	9400	TYKW	21 GRF	0340.0	0450.0	210.0	6.0	3.0		
	1000	TYKW	21 GRF	0350.0	0412.0	110.0	1.5	.7		
	3750	TYKW	20 GRF	0440.0	0510.0	60.0	2.0	1.0		
	2000	TYKW	20 GRF	0505.0	0510.0	35.0	2.0	1.0		
	1000	TYKW	45 C	0512.0	0512.2	1.0	8.0	1.5		
	3750	TYKW	20 GRF	0618.0	0625.0	30.0	3.0	1.5		
	6100	KISV	21 GRF	0619.0	0625.1	21.0	7.0			
	9400	TYKW	20 GRF	0620.0	0625.0	35.0	6.0	3.0		
	6100	KISV	32 ABS	0635.6	0725.0	65.0	-5.0			
	1470	POTS	21 GRF	0737.7	0857.5	202.0	28.0			
	1415	ATHN	47 GB	0737.8	0743.8	23.3	95.0			QL=6 ST=2 TYP=5
	2695	ATHN	47 GB	0737.8	0743.8	23.3	110.0			QL=6 ST=2 TYP=5
	3750	TYKW	45 C	0738.0	0743.8	12.0	86.0	15.0		
	2000	TYKW	45 C	0738.0	0743.8	12.0	113.0	25.0		
	3100	CRIM	28 PRE	0738.0	0740.8	4.0	18.0	15.0		
	4995	ATHN	47 GB	0738.0	0743.8	23.3	78.0			QL=6 ST=2 TYP=5
	8800	ATHN	4 S/F	0738.0	0743.8	22.6	49.0			QL=2 ST=2 TYP=3
	3000	IZMI	4 S/F	0738.0	0743.8	7.0	97.0	30.0		
	2840	PEKG	45 C	0738.0	0744.0	8.0	96.6	22.2		
	2650	DWIN	3 S	0738.0	0744.0	8.0	90.0	30.0		
	9500	POTS	21 GRF	0738.0	0857.2	202.0U	78.0			
	3000	POTS	21 GRF	0738.0	0857.5	282.0	60.0			
	3100	BERN	22 GRF	0738.2	0744.0	170.0U	107.0			ONLY PAPER REC
	2950	GORK	21 GRF	0738.2	0854.0	262.0D	45.0			
	11800	BERN	22 GRF	0738.2	0857.3	170.0U	82.0			ONLY PAPER REC
	8400	BERN	22 GRF	0738.2	0857.3	170.0U	127.0			ONLY PAPER REC
	2695	LEAR	47 GB	0738.3	0739.6	10.0	26.0			QL=6 ST=2 TYP=5
	2950	GORK	1 S	0739.0	0739.5	1.5	6.8	3.4		
	1415	LEAR	47 GB	0739.1	0740.8	10.5	17.0			QL=6 ST=2 TYP=5
	4995	LEAR	47 GB	0739.6	0740.8	9.2	6.0			QL=6 ST=2 TYP=5
	1000	TYKW	5 S	0741.0	0743.8	5.0	42.0	12.0		
	1470	POTS	4 S/F	0741.7	0744.4	5.8	89.0			
	3000	POTS	4 S/F	0741.9	0743.9	3.1	96.0			
9400	TYKW	21 GRF	0742.0	0752.0	60.0D	22.0	15.0D			
950	GORK	3 S	0742.0	0743.8	4.8	20.0				
2950	GORK	4 S/F	0742.0	0743.8	3.1	100.0				
3100	CRIM	3 S	0742.0	0744.0	5.0	89.0	30.0			
1415	MANI	4 S/F	0742.2	0744.3	3.3	64.4	21.5			
9500	POTS	3 S	0743.0	0743.6	1.2	32.0				
9395	PEKG	3 S	0743.0	0743.9	1.5	32.9	9.9			
9395	PEKG	23 GRF	0743.0	0752.8	25.0	12.1	3.6			
9100	GORK	23 GRF	0743.2	0857.3	229.0	100.0				
9400	TYKW	5 S	0743.4	0743.8	1.5	42.0	10.0			
6100	KISV	8 S	0743.4	0743.8	1.0	43.0				
9100	GORK	3 S	0743.5	0743.8	.8	44.0				
8800	LEAR	4 S/F	0743.5	0743.8	4.8	49.0			QL=6 ST=2 TYP=3	
15000	KISV	2 S/F	0743.5	0743.8	1.0	21.0				
15400	LEAR	8 S	0743.6	0743.8	1.2	24.0			QL=6 ST=2 TYP=3	
650	GORK	1 S	0743.6	0743.9	4.4	4.0	2.0			
4995	MANI	3 S	0744.0	0744.3	1.0	117.8	39.3			
6100	KISV	28 PRE	0744.5	0849.0	64.5	29.0				
15000	KISV	23 GRF	0745.5	0857.4	180.0	72.0				
1000	TYKW	29 PBI	0746.0		45.0D	6.0U	4.0D			
3100	CRIM	29 PBI	0747.0	0747.0		10.0				

S O L A R R A D I O E M I S S I O N
O U T S T A N D I N G O C C U R R E N C E S

5
Sep 82

S E P T E M B E R 1 9 8 2

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10-22 W/m ² Hz)	Mean		
01	3750	TYKW	30 PBI	0750.0		55.0	13.0	10.0D		
	2000	TYKW	30 PBI	0750.0		50.0D	9.0	8.0D		
	3100	CRIM	20 GRF	0808.0	0857.2	172.0	56.0	17.0		
	2695	ATHN	20 GRF	0808.3	0857.5	86.5	56.0			QL=6 ST=2 TYP=2
	9400	TYKW	5 S	0812.0	0840.0U	30.0D	36.0D	17.0D		
	2000	TYKW	5 S	0812.0	0840.0U	32.0D	28.0D	14.0D		
	8800	ATHN	20 GRF	0812.0	0857.5	83.0	100.0			QL=2 ST=2 TYP=2
	3750	TYKW	5 S	0813.0	0845.0U	32.0D	28.0D	14.0D		
	1415	ATHN	20 GRF	0813.1	0857.6	79.2	23.0			QL=6 ST=2 TYP=2
	4995	ATHN	20 GRF	0813.6	0857.5	81.4	81.0			QL=6 ST=2 TYP=2
	6100	KISV	46 C	0849.0	0857.5	21.0	54.0			
	650	GORK	22 GRF	0852.3	0857.8	27.8	6.0			
	2650	DWIN	2 S/F	0855.0	0857.0	5.0	20.0	10.0		
	1415	LEAR	4 S/F	0855.1	0857.3	4.2	7.0			QL=6 ST=2 TYP=3
	2950	GORK	1 S	0855.3	0857.4	5.0	14.0			
	950	GORK	40 F	0855.7	0858.9	23.0	11.0			
	2695	LEAR	4 S/F	0855.8	0858.3	3.5	18.0			QL=6 ST=2 TYP=3
	3000	IZMI	5 S	0856.0	0857.4	3.0	21.0	10.0		
	4995	LEAR	4 S/F	0856.1	0857.3	2.7	20.0			QL=6 ST=2 TYP=3
	8800	LEAR	4 S/F	0856.1	0857.3	2.5	33.0			QL=6 ST=2 TYP=3
	15400	LEAR	4 S/F	0856.3	0857.3	2.5	17.0			QL=6 ST=2 TYP=3
	610	LEAR	4 S/F	0857.0	0858.0	3.3	7.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0858.1	0858.3	.2	56.0			QL=6 ST=2 TYP=3
	430	KRAK	1 S	0905.5	0905.7	.8	4.0	2.0		
	810	KRAK	8 S	0909.0	0909.0	.2	8.0			
	6100	KISV	29 PBI	0910.0	0910.0	95.0	30.0			
	810	KRAK	1 S	0910.5	0910.7	.5	11.0	5.0		
	430	KRAK	2 S/F	0913.0	0913.4	1.0	12.0	3.0		
	6100	KISV	2 S/F	0917.1	0917.9	4.0	6.0			
	810	KRAK	2 S/F	1103.5	1104.0	.7	11.0	3.0		
	430	KRAK	42 SER	1104.0	1104.4	3.5	500.0D			
	204	IZMI	4 S/F	1104.2	1104.5	1.0	650.0	93.0		
	536	ONDR	42 SER	1104.3	1104.8	3.5	20.0			
	930	BORD	8 S	1104.4	1104.6	.4	22.0	2.0		
	127	TORN	7 C	1104.7	1105.1	1.3	190.0	90.0		
	2800	OTTA	20 GRF	1345.0	1350.0	220.0	5.2	2.6		
	9400	HUAN	2 S/F	1549.7	1550.5	3.9	10.2	4.9		0
	9400	HUAN	1 S	1619.0	1620.7	2.6	17.0	7.1		L
	9400	HUAN	29 PBI	1621.6	1621.6	9.1	5.1	3.8		0
	2800	OTTA	260 FAL	1820.0	1935.0	75.0	-5.8			
9400	HUAN	20 GRF	1924.1	1937.6	30.9	5.9	2.7		R	
9400	HUAN	20 GRF	2015.8	2037.5	42.2	6.8	3.6		0	
200	HIRA	46 C	2126.2	2127.6	2.7	500.0	124.0		0	
500	HIRA	45 C	2126.7	2127.7	1.6	7.0	4.0		WL	
1000	TYKW	21 GRF	2308.0	2330.0	115.0	3.0	1.5			
1000	TYKW	42 SER	2314.0	2316.8	6.0	83.0	2.0			
500	HIRA	46 C	2318.8	2319.0	.8	29.0			WL	
245	LEAR	49 GB	2319.0	2319.6	.8	670.0			QL=6 ST=2 TYP=6	
410	LEAR	8 S	2319.0	2319.6	.8	25.0			QL=6 ST=2 TYP=3	
200	HIRA	45 C	2319.4	2319.5	.7	390.0	73.0		0	
2000	TYKW	5 S	2319.5	2319.7	.5	4.0	1.0			
2695	PENT	20 GRF	2320.0	2335.0	80.0	5.4	2.6			
3750	TYKW	5 S	2328.0	2335.0	12.0	8.0	5.0			
9400	TYKW	20 GRF	2329.0	2336.0	125.0	10.0	4.0			
2000	TYKW	20 GRF	2330.0	2333.0	100.0	4.0	1.5			
3750	TYKW	29 PBI	2340.0		100.0	5.0	2.5			
02	260	ONDR	44 NS	0602.0E	0818.0U	490.0D	9.0			
	245	SGMR	43 NS	1030.0	1108.3	746.0	160.0			QL=6 ST=2 TYP=1
	208	VORO	44 NS	2200.0E		300.0D		11.0		
	2000	TYKW	20 GRF	0257.0	0315.0	160.0	3.0	1.5		
	3750	TYKW	20 GRF	0355.0	0410.0	50.0	2.0	1.0		
	3750	TYKW	5 S	0510.0	0514.0	15.0	2.0	1.0		
	3750	TYKW	20 GRF	0613.0	0620.0	35.0	2.0	1.0		
	6100	KISV	2 S/F	0614.7	0616.4	3.0	4.0			
	6100	KISV	2 S/F	0828.0	0830.0	5.0	5.0			
	127	TORN	41 F	1117.1	1117.5	5.8	10.0	1.0		
	2800	OTTA	21 GRF	1255.0	1350.0	220.0	9.2	5.0		
	2800	OTTA	4 S/F	1259.0	1301.5	7.0	26.6	8.9		
	3000	POTS	4 S/F	1259.0	1301.5	6.0	24.0			
	1470	POTS	4 S/F	1259.0	1302.0	7.5	15.0			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

SEPTEMBER 1982

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean (W/m ² Hz)	Int	Remarks
02	3100	BERN	41 F	1259.2	1322.6	90.0U	39.0			ONLY PAPER REC
	8400	BERN	20 GRF	1259.2	1324.3	90.0U	17.0			ONLY PAPER REC
	2695	ATHN	4 S/F	1259.5	1301.8	5.6	21.0			QL=6 ST=2 TYP=3
	2650	DWIN	1 S	1300.0	1302.0	4.0	25.0	10.0		
	2695	SGMR	8 S	1301.1	1301.6	1.5	27.0			QL=6 ST=2 TYP=3
	1415	SGMR	4 S/F	1301.3	1301.6	2.5	21.0			QL=6 ST=2 TYP=3
	9400	HUAN	20 GRF	1317.2	1355.0	111.4	11.8	6.0		R
	2800	OTTA	3 S	1320.0	1322.7	6.0	24.2	9.0		
	3000	POTS	3 S	1320.0	1322.5	5.0	25.0			
	4995	ATHN	4 S/F	1320.0	1322.6	6.6	8.0			QL=6 ST=2 TYP=3
	2650	DWIN	1 S	1320.0	1323.0	5.0	20.0	10.0		
	2695	ATHN	4 S/F	1320.8	1322.6	5.8	16.0			QL=6 ST=2 TYP=3
	8800	ATHN	4 S/F	1321.0	1324.5	5.6	3.0			QL=2 ST=2 TYP=3
	1470	POTS	1 S	1321.5	1322.2	2.5	3.0			
	4995	SGMR	4 S/F	1321.8	1322.6	2.2	23.0			QL=6 ST=2 TYP=3
	2695	SGMR	8 S	1322.0	1322.5	1.6	27.0			QL=6 ST=2 TYP=3
	930	BORD	8 S	1510.5	1510.5	.1	18.0	1.0		
	2800	OTTA	27A RF	1640.0		215.0	3.0	2.8		
	2800	OTTA	24 R	1640.0	1655.0	15.0	3.0	1.5		
	2800	OTTA	24P R	1655.0		180.0	3.0			
	930	BORD	41 F	1729.6	1729.6	.5	28.0	3.0		
	2800	OTTA	21 GRF	1833.0	1850.0	80.0	14.0	8.3		
	2800	OTTA	4 S/F	1837.0	1843.5	10.0	10.6	8.3		
	9400	HUAN	20 GRF	1841.5	1919.0	1115.9	15.2	7.9		
	2800	OTTA	26 FAL	1955.0	2015.0	20.0	03.0	-1.5		R
	410	PALE	47 GB	2021.1	2021.6	.9	150.0			QL=6 ST=2 TYP=5
	245	PALE	47 GB	2021.1	2021.6	1.5	119.0			QL=6 ST=2 TYP=5
	9400	TYKW	5 S	2157.0	2157.5	2.0	6.0	2.0		
3750	TYKW	20 GRF	2230.0	2320.0	120.0	3.0	1.5			
245	LEAR	8 S	2354.5	2354.8	.6	10.0			QL=6 ST=2 TYP=3	
03	208	VORO	43 NS	0005.0		115.0D		10.0		
	245	LEAR	43 NS	0454.3	0456.3	16.8	50.0			QL=6 ST=2 TYP=1
	200	HIRA	41 F	0014.0	0030.0	56.0	54.0			ML
	3750	TYKW	5 S	0035.0	0036.1	2.5	2.0	.7		
	3750	TYKW	21 GRF	0038.0	0048.0	70.0	3.0	1.0		
	2000	TYKW	20 GRF	0038.0	0048.0	70.0	2.0	1.0		
	3750	TYKW	5 S	0121.0	0122.2	3.0	6.0	3.0		
	9395	PEKG	4 S/F	0121.0	0122.1	3.5	12.5	5.0		
	9400	TYKW	5 S	0121.5	0122.1	2.0	14.0	4.0		
	8800	LEAR	8 S	0122.0	0122.1	1.6	20.0			QL=6 ST=2 TYP=3
	4995	LEAR	4 S/F	0122.0	0122.1	2.8	11.0			QL=6 ST=2 TYP=3
	9400	TYKW	29 PBI	0123.5		18.0	3.0	1.5		
	3750	TYKW	29 PBI	0124.0		20.0	3.0	1.5		
	208	VORO	4 S/F	0144.0	0145.0	1.6	48.0			
	3750	TYKW	20 GRF	0154.0	0204.0	75.0	4.0	2.0		
	2000	TYKW	20 GRF	0155.0	0159.4	35.0	3.0	1.0		
	1000	TYKW	20 GRF	0155.0	0159.5	35.0	5.0	1.5		
	17000	NOBE	20 GRF	0457.2	0500.3	25.0D	9.0			0
	3750	TYKW	28 PRE	0558.0	0608.0	10.0	3.0	1.5		
	2000	TYKW	20 GRF	0600.0	0615.0	70.0	3.0	1.5		
	4995	ATHN	4 S/F	0606.3	0608.0	3.3	27.0			QL=6 ST=2 TYP=3
	8800	ATHN	4 S/F	0606.6	0608.0	3.2	30.0			QL=2 ST=2 TYP=3
	6100	KISV	4 S/F	0607.8	0609.1	3.0	24.0			
	3750	TYKW	5 S	0608.0	0609.2	3.0	20.0	8.0		
	2840	PEKG	1 S	0608.0	0609.0	3.0	7.4	3.0		
	9395	PEKG	3 S	0608.0	0609.2	11.0	26.9	11.0		
	8400	BERN	3 S	0608.5	0609.1	7.0	41.0			
	11800	BERN	3 S	0608.5	0609.1	7.0	16.0			
	3100	BERN	3 S	0608.5	0609.1	7.0	11.0			
	9100	GORK	1 S	0608.5	0609.1	3.0	29.0	15.0		
	9400	TYKW	5 S	0608.5	0609.2	1.5	27.0	10.0		
	4995	LEAR	8 S	0608.6	0609.1		33.0			QL=6 ST=3 TYP=3
8800	LEAR	8 S	0609.0	0609.1		28.0			QL=6 ST=3 TYP=3	
9400	TYKW	29 PBI	0610.0		15.0	3.0	1.5			
3750	TYKW	29 PBI	0611.0		30.0	5.0	2.0			
410	LEAR	8 S	0821.0	0821.1	.1	28.0			QL=6 ST=2 TYP=3	
245	LEAR	8 S	0821.0	0821.1	.1	10.0			QL=6 ST=2 TYP=3	
2950	GORK	20 GRF	0825.0	1006.0	204.0	7.0				
15400	LEAR	8 S	0826.3	0826.3	1.0	30.0			QL=6 ST=2 TYP=3	
8800	LEAR	8 S	0826.3	0826.5	1.0	13.0			QL=6 ST=2 TYP=3	

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

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Sep 82

SEPTEMBER 1982

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10-22 W/m ² Hz)	Mean			
03	245	LEAR	8 S	0843.8	0844.0	.3	10.0			QL=6 ST=2 TYP=3	
	410	LEAR	8 S	0843.8	0844.0	.3	45.0			QL=6 ST=2 TYP=3	
	245	LEAR	8 S	0905.8	0906.0	.3	5.0			QL=6 ST=2 TYP=3	
	410	LEAR	8 S	0905.8	0906.0	.3	30.0			QL=6 ST=2 TYP=3	
	430	KRAK	2 S/F	0927.5	0927.5	.5	23.0	3.0			
	245	LEAR	8 S	0928.1	0928.1	1.0	40.0				QL=6 ST=2 TYP=3
	808	ONDR	45 C	0932.9	0933.2	2.3	26.0	25.0			
	260	ONDR	8 S	0938.7	0938.8	.2	15.0				
	260	ONDR	8 S	1013.9	1014.0	.4	24.0				
	234	POTS	4 S/F	1203.4	1203.8	.8	150.0	15.0			
	930	BORD	41 F	1228.5	1228.9	.4	21.0	2.0			
	2800	OTTA	22 GRF	1405.0	1508.0	290.0	12.8	6.0			
	2800	OTTA	20 GRF	1900.0	1925.0	55.0	2.6	1.3			
	2800	OTTA	1 S	2037.9	2038.1	1.0	3.2	1.2			
	2800	OTTA	20 GRF	2125.0	2155.0	65.0	2.6	1.3			
	2000	TYKW	20 GRF	2325.0	2342.5	60.0	6.0	2.5			
	2695	PENT	20 GRF	2325.0	2345.0	55.0	6.8	3.6			
	1000	TYKW	45 C	2327.0	2339.2	23.0	9.0	3.0			
	3750	TYKW	20 GRF	2330.0	2350.0	47.0	8.0	4.0			
	9400	TYKW	20 GRF	2335.0	2350.0	45.0	4.0	2.0			
500	HIRA	42 SER	2338.9	2343.9	7.0	20.0				WR	
410	LEAR	47 GB	2340.0	2340.6	1.1	65.0				QL=6 ST=2 TYP=5	
1000	TYKW	30 PBI	2350.0		80.0	4.0	2.0				
04	245	LEAR	43 NS	0001.0	0015.1	479.0	51.0			QL=6 ST=2 TYP=1	
	100	GORK	44 NS	0357.0E		56.0D		5.0			
	208	VORO	44 NS	2200.0E		300.0D		11.0			
	9400	TYKW	21 GRF	0028.0	0435.0	480.0D	88.0	44.0D			
	3750	TYKW	21 GRF	0029.0	0435.0	490.0D	95.0	50.0D			
	9395	PEKG	21 GRF	0040.0E	0051.5	61.0D	29.3	12.0			
	9400	TYKW	45 C	0043.0	0047.4	19.0	44.0	17.0			
	2000	TYKW	45 C	0043.0	0047.7	10.0	68.0	14.0			
	3750	TYKW	45 C	0043.0	0048.5	17.0	67.0	15.0			
	2695	PENT	4 S/F	0044.0	0047.8	15.0	54.0	13.4			
	2840	PEKG	45 C	0044.0	0047.8	10.5	27.5	9.9			
	9395	PEKG	45 C	0045.0	0047.5	6.0	35.9	13.5			
	4995	LEAR	47 GB	0045.3	0047.8	7.7	67.0				QL=6 ST=2 TYP=5
	8800	LEAR	47 GB	0045.3	0047.8	10.8	50.0				QL=6 ST=2 TYP=5
	17000	NOBE	20 GRF	0045.4	0048.1	47.0	23.0				0
	1000	TYKW	5 S	0046.0	0048.8	10.0	40.0	13.0			
	100	HIRA	48 C	0046.0	0047.3	13.6	9800.0	550.0			0
	4995	MANI	4 S/F	0046.0	0048.0	4.6	61.9	20.6			
	245	LEAR	49 GB	0046.1	0046.8	10.0	510.0				QL=6 ST=2 TYP=6
	2695	LEAR	47 GB	0046.1	0048.3	10.0	66.0				QL=6 ST=2 TYP=5
	200	HIRA	46 C	0046.3	0048.0	9.0	3200.0	174.0			MR
	500	HIRA	45 C	0046.3	0048.0	12.0	40.0	14.0			MR
	15400	LEAR	4 S/F	0046.3	0048.1	9.8	30.0				QL=6 ST=2 TYP=3
	410	LEAR	47 GB	0046.5	0048.1	9.6	90.0				QL=6 ST=2 TYP=5
	1415	MANI	4 S/F	0046.5	0049.0	5.5	43.7	14.6			
	1415	LEAR	47 GB	0046.6	0048.8	7.5	51.0				QL=6 ST=2 TYP=5
	610	LEAR	4 S/F	0047.6	0048.3	8.5	42.0				QL=6 ST=2 TYP=3
	2000	TYKW	29 PBI	0053.0		10.0	5.0	1.5			
	1000	TYKW	29 PBI	0056.0		12.0	4.0	1.5			
	3750	TYKW	29 PBI	0100.0		40.0	7.0	3.5			
	9400	TYKW	29 PBI	0102.0		35.0	17.0	9.0			
	2000	TYKW	21 GRF	0115.0	0435.0	450.0D	68.0	37.0D			
	1000	TYKW	21 GRF	0120.0	0435.0	450.0D	22.0	13.0D			
200	HIRA	46 C	0120.0	0121.0	2.3	195.0	37.0			WR	
410	LEAR	8 S	0120.1	0121.1	1.5	35.0				QL=6 ST=2 TYP=3	
100	HIRA	46 C	0120.3	0120.3	.4	105.0	14.0			0	
500	HIRA	45 C	0120.3	0120.3	.1	12.0	5.0			WR	
245	LEAR	47 GB	0120.5	0120.6	1.3	110.0				QL=6 ST=2 TYP=5	
500	HIRA	20 GRF	0130.0	0205.0	54.0	10.0	6.0			ML	
1000	TYKW	45 C	0140.0	0204.7	40.0	206.0	10.0D				
9400	TYKW	20 GRF	0150.0	0203.0	30.0	6.0	3.0				
2000	TYKW	20 GRF	0150.0	0203.0	30.0	5.0	2.5				
3750	TYKW	20 GRF	0150.0	0204.0	30.0	7.0	4.0				
100	HIRA	46 C	0154.6	0155.6	2.6	440.0	135.0			0	
610	LEAR	4 S/F	0201.5	0206.3	10.6	42.0				QL=6 ST=2 TYP=3	
1000	TYKW	45 C	0220.0	0223.7	14.0	37.0	4.0				
3750	TYKW	5 S	0223.0	0227.0	8.0	2.0	1.0				

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

SEPTEMBER 1982

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
04	3750	TYKW	21 GRF	0233.0	0246.0	35.0	7.0	3.0		
	1000	TYKW		0234.0	0245.2	48.0	143.0	25.0		
	1000	TYKW	47 GB	0234.0	0333.1	91.0	1610.0	60.0		
	2000	TYKW	45 C	0235.0	0245.2	24.0	6.0	3.0		
	610	LEAR	49 GB	0240.0	0251.6	15.0	30000.0			QL=6 ST=2 TYP=6
	410	LEAR	47 GB	0240.8	0248.0	11.2	110.0			QL=6 ST=2 TYP=5
	245	LEAR	47 GB	0240.8	0251.6	14.2	480.0			QL=6 ST=2 TYP=5
	208	VORO	3 S	0245.0	0248.0	7.0	61.0			
	2840	PEKG	21 GRF	0245.0	0345.0	60.00	14.1			
	3750	TYKW	5 S	0252.8	0253.6	2.5	3.0	1.0		
	2000	TYKW	28 PRE	0302.0	0319.2	22.0	11.0	6.0		
	3750	TYKW	20 GRF	0313.0	0335.0	55.0	16.0	7.0		
	2000	TYKW	45 C	0324.0	0335.1	20.0	69.0	22.0		
	8800	LEAR	47 GB	0324.0	0331.8	26.0	67.0			QL=6 ST=2 TYP=5
	2695	LEAR	47 GB	0324.0	0335.1	26.0	93.0			QL=6 ST=2 TYP=5
	4995	LEAR	47 GB	0324.0	0335.5	26.0	66.0			QL=6 ST=2 TYP=5
	610	LEAR	49 GB	0324.0	0336.0	26.0	510.0			QL=6 ST=2 TYP=6
	15400	LEAR	47 GB	0324.0	0336.3	26.0	61.0			QL=6 ST=2 TYP=5
	9400	TYKW	5 S	0325.0	0335.0	20.0	5.0	2.5		
	1415	LEAR	47 GB	0325.0	0333.8	25.0	470.0			QL=6 ST=2 TYP=5
	2840	PEKG	45 C	0328.0	0335.0	17.0	16.9	7.6		
	2000	TYKW	29 PBI	0344.0		30.0	10.0	4.0		
	1415	LEAR	47 GB	0354.8	0355.3	2.0	110.0			QL=6 ST=2 TYP=5
	200	GORK		0356.0E		314.0D				
	950	GORK	22 GRF	0357.0E	0442.0	374.0D	12.0			
	2950	GORK	20 GRF	0357.8E	0430.0	400.0D	65.0			
	650	GORK	23 GRF	0400.0E		100.0D				
	9400	GORK	20 GRF	0400.0E	0448.2	319.0D	65.0			
	1000	TYKW	30 PBI	0405.0		25.0	7.0	3.0		
	1000	TYKW	45 C	0411.0	0415.0	17.0	4.0	1.5		
	1000	TYKW		0411.0	0424.6		4.0			
	410	LEAR	47 GB	0420.8	0423.0	5.2	55.0			QL=6 ST=2 TYP=5
	610	LEAR	4 S/F	0421.1	0423.8	4.5	45.0			QL=6 ST=2 TYP=3
	650	GORK	40 F	0421.4	0426.6	5.2U	27.0			
	1000	TYKW	45 C	0441.4	0442.2	1.5	3.0	.7		
	410	LEAR	47 GB	0442.8	0443.1	3.3	95.0			QL=6 ST=2 TYP=5
	650	GORK	40 F	0442.9	0443.4	1.0	14.5			
	15000	KISV	26 FAL	0500.0E		120.0D	40.0D			
	6100	KISV	26 FAL	0500.0E		350.0U	50.0D			
	1000	TYKW	45 C	0516.0	0516.4	1.0	8.0	1.0		
113	POTS	4 S/F	0722.5	0722.5	.2	120.0	20.0			
430	KRAK	8 S	0901.0	0901.1	.2	12.0				
6100	KISV	1 S	0937.8	0938.3	1.5	6.0				
810	KRAK	8 S	1047.0	1047.0	.1	170.0				
430	KRAK	8 S	1047.0	1047.0	.1	500.0				
430	KRAK	8 S	1125.5	1125.5	.1	7.0				
2800	OTTA	27A RF	1310.0		375.0	3.0	2.7			
2800	OTTA	24 R	1310.0	1325.0	15.0	3.0	1.5			
2800	OTTA	24P R	1325.0		295.0	3.0				
260	ONDR	4 S/F	1352.7	1353.6	1.8	30.0				
536	ONDR	8 S	1354.5	1354.5	.1	7.0				
260	ONDR	8 S	1400.6	1400.8	.3	13.0				
260	ONDR	45 C	1432.1	1435.7	4.8	19.0				
930	BORD	8 S	1500.0	1500.2	.5	26.0	3.0			
2800	OTTA	20 GRF	1635.0	1645.0	55.0	3.6	1.8			
9400	HUAN	1 S	1753.7	1754.8	2.4	5.3	2.6		0	
2800	OTTA	26 FAL	1820.0	1925.0	65.0	-3.0	-1.5			
2800	OTTA	20 GRF	2005.0	2030.0	65.0	3.6	2.0			
3750	TYKW	20 GRF	2220.0	2300.0	150.0	3.0	1.5			
05	33	UPIC	43 NS	0749.3		550.7D				
	29	UPIC	43 NS	0947.5	0958.7	432.5D				
	245	LEAR	4 S/F	0124.1	0126.6	3.0	30.0			QL=6 ST=2 TYP=3
	410	LEAR	4 S/F	0125.0	0127.0	2.1	10.0			QL=6 ST=2 TYP=3
	3750	TYKW	21 GRF	0253.0	0324.0	95.0	6.0	2.5		
	9400	TYKW	20 GRF	0259.0	0330.0	90.0	6.0	3.0		
	3750	TYKW	5 S	0308.5	0309.8	4.0	5.0	2.0		
	2000	TYKW	20 GRF	0319.0	0324.0	50.0	2.0	1.0		
	245	LEAR	8 S	0328.6	0328.6	.2	20.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0328.6	0328.6	.2	6.0			QL=6 ST=2 TYP=3
430	KRAK	8 S	0706.5	0706.6	.3	12.0				

S O L A R R A D I O E M I S S I O N
O U T S T A N D I N G O C C U R R E N C E S

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Sep 82

S E P T E M B E R 1 9 8 2

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22)	Mean W/m ² Hz)			
05	430	KRAK	8 S	0815.5	0815.6	.3	12.0				
	410	LEAR	8 S	0828.3	0828.5	.3	13.0			QL=6 ST=2 TYP=3	
	245	LEAR	8 S	0828.3	0828.5	.3	5.0			QL=6 ST=2 TYP=3	
	430	KRAK	8 S	0843.7	0843.7	.1	8.0				
	1470	POTS	22 GRF	0940.0	1000.0	225.0	9.0				
	950	GORK	23 GRF	0942.4	1009.0	68.0	4.0				
	3000	POTS	20 GRF	0945.0	1033.0	115.0	10.0				
	2950	GORK	20 GRF	0945.7	1003.0	60.00	9.5				
	950	GORK	4 S/F	0946.9	0948.2	1.7	10.0				
	930	BORD	46 C	0947.0	0948.0	2.0	17.0	4.0			
	9500	POTS	20 GRF	0950.0	1030.0	145.0	11.0				
	950	GORK	4 S/F	0952.8	0954.0	3.0	16.0				
	930	BORD	41 F	0953.0	0953.9	3.0	20.0	3.0			
	9100	GORK	20 GRF	0958.5		47.00					
	260	ONDR	40 F	1009.0	1009.4	4.1	31.0	6.0			
	260	ONDR	8 S	1108.2	1108.2	.1	14.0				
	430	KRAK	8 S	1115.7	1115.8	.3	60.0				
	810	KRAK	8 S	1211.0	1211.0	.1	10.0				
	430	KRAK	8 S	1211.0	1211.2	.4	40.0				
	260	ONDR	8 S	1214.3	1214.3	.1	4.0				
	6100	KISV	1 S	1226.9	1227.1	.5	4.0				
	2800	OTTA	20 GRF	1340.0	1350.0	25.0	3.0	1.5			
	260	ONDR	8 S	1352.6	1352.6	.1	10.0				
	2800	OTTA	20 GRF	1745.0	1810.0	100.0	2.6	1.3			
	245	PALE	47 GB	1810.3	1810.6	.5	160.0				QL=6 ST=3 TYP=5
	2800	OTTA	1 S	1930.5	1931.8	1.5	7.2	2.6			
	2800	OTTA	20 GRF	2000.0	2110.0	125.0	3.0				
	610	SGMR	8 S	2021.1	2021.5	.5	30.0				QL=6 ST=2 TYP=3
410	SGMR	8 S	2021.3	2021.5	1.3	40.0				QL=6 ST=2 TYP=3	
410	PALE	47 GB	2021.3	2021.6	1.3	82.0				QL=6 ST=2 TYP=5	
610	PALE	8 S	2021.3	2021.6	1.3	28.0				QL=6 ST=2 TYP=3	
410	SGMR	8 S	2209.6	2210.3	2.0	33.0				QL=6 ST=2 TYP=3	
06	410	LEAR	43 NS	0107.0	0225.8	239.0	100.0			QL=6 ST=2 TYP=1	
	500	HIRA	46 C	0124.0	0152.0	35.0	55.0	20.0		SR	
	2695	PENT		0145.0	0152.0	7.00	107.0				
	2000	TYKW	45 C	0147.0	0152.9	13.0	153.0	21.0			
	2840	PEKG	3 S	0147.0	0153.0	17.0	201.0	14.2			
	3750	TYKW	45 C	0147.5	0152.9	12.5	488.0	55.0			
	1000	TYKW	5 S	0148.0	0149.6U	13.0	5.00	2.00			
	9400	TYKW	5 S	0148.0	0153.0	10.0	397.0	50.0			RAIN
	9395	PEKG	3 S	0149.0	0153.0	15.0	338.0	27.8			
	2695	PALE	47 GB	0149.3	0152.8	6.0	300.0				QL=6 ST=2 TYP=5
	4995	PALE	49 GB	0149.3	0152.8	7.0	690.0				QL=6 ST=2 TYP=6
	1415	PALE	47 GB	0149.5	0152.8	5.8	100.0				QL=6 ST=2 TYP=5
	8800	PALE	49 GB	0150.6	0152.8	5.7	540.0				QL=6 ST=2 TYP=6
	4995	MANI	47 GB	0151.5	0152.8	3.5	642.7	214.3			
	1415	MANI	3 S	0151.5	0153.0	5.5	63.8	21.3			
	15400	PALE	47 GB	0151.6	0152.8	5.0	270.0				QL=6 ST=2 TYP=5
	17000	NOBE	3 S	0151.7	0153.1	3.5	152.0				L
	610	PALE	8 S	0152.8	0153.3	1.8	17.0				QL=6 ST=2 TYP=3
	410	PALE	4 S/F	0155.5	0156.1	4.6	22.0				QL=6 ST=2 TYP=3
	3750	TYKW	31 ABS	0200.0	0230.0	60.0	-5.0	-3.0			RAIN
	2000	TYKW	31 ABS	0200.0	0243.0	60.0	-4.0	-2.0			
	500	HIRA	1 S	0224.9	0225.7	1.2	8.0	4.0			SR
	500	HIRA	42 SER	0241.6	0250.5	32.0	15.0				SR
	1000	TYKW	20 GRF	0310.0	0325.0	45.0	1.5	.7			
	2000	TYKW	20 GRF	0312.0	0335.0	90.0	4.0	2.0			
	3750	TYKW	21 GRF	0320.0	0420.0	130.0	5.0	2.0			
	3750	TYKW	5 S	0429.0	0431.3	14.0	8.0	2.5			
	4995	LEAR	4 S/F	0431.1	0431.3	3.5	13.0				QL=6 ST=2 TYP=3
3750	TYKW	5 S	0550.0	0559.0	20.0	2.0	1.0				
3750	TYKW	5 S	0624.0	0625.7	6.0	4.0	1.5				
410	LEAR	8 S	0656.0	0656.1	.1	19.0				QL=6 ST=2 TYP=3	
410	LEAR	8 S	0848.5	0848.6	.1	30.0				QL=6 ST=2 TYP=3	
245	LEAR	8 S	0848.5	0848.6	.1	6.0				QL=6 ST=2 TYP=3	
810	KRAK	8 S	0916.8E	0917.0U	.3U	10.0					
810	KRAK	8 S	0929.2E	0929.3U	.2U	15.0					
430	KRAK	8 S	0929.2	0929.5	.7	200.0					
127	TORN	47 GB	1006.6	1007.0	1.0	800.0	400.0			UNCERTAIN	
127	TORN	8 S	1007.8	1008.1	.5	900.0	450.0			UNCERTAIN	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10-22 W/m ² Hz)	Mean		
06	260	ONDR	8 S	1223.9	1223.9	.3	40.0			
	2800	OTTA	21 GRF	1812.0	1820.0	25.0	3.2	1.6		
	2800	OTTA	1 S	1812.5	1813.5	3.0	4.2	2.0		
	9400	HUAN	20 GRF	1821.7	1831.5	33.7	5.3	4.0		0
	9400	HUAN	20 GRF	2002.0	2020.3	45.3	3.6	2.0		0
	3750	TYKW	5 S	2337.0	2337.5	3.0	2.0	.7		
07	3750	TYKW	21 GRF	0045.0	0200.0	215.0	4.0	2.0		
	2000	TYKW	21 GRF	0130.0	0256.0	160.0	2.0	1.0		
	3750	TYKW	5 S	0215.0	0216.2	2.5	1.5	.5		
	245	LEAR	8 S	0250.6	0250.6	.2	17.0			QL=6 ST=2 TYP=3
	2000	TYKW	5 S	0343.2	0343.3	1.0	5.0	1.5		
	2000	TYKW	5 S	0503.0	0503.4	1.5	7.0	1.0		
	610	LEAR	8 S	0503.1	0503.3	.7	17.0			QL=6 ST=2 TYP=3
	3750	TYKW	20 GRF	0525.0	0550.0	80.0	3.0	1.5		
	2000	TYKW	20 GRF	0530.0	0550.0	70.0	2.0	1.0		
	430	KRAK	8 S	0702.5	0702.6	.2	21.0			
	430	KRAK	8 S	0716.1	0716.3	1.0	110.0			
	810	KRAK	8 S	0716.3E	0716.5U	.5U	9.0			
	810	KRAK	8 S	0730.7E	0730.9U	.5U	6.0			
	430	KRAK	8 S	0733.5E	0733.9U	.5U	8.0			
	430	KRAK	8 S	0751.2	0751.3	.3U	20.0			
	430	KRAK	8 S	0907.5	0907.5	.2	19.0			
	260	ONDR	8 S	0944.8	0944.8	.1	6.0			
	33	UPIC	8 S	0955.3	0955.4	.5				
	29	UPIC	8 S	0955.4	0955.5	.4				
	9100	GORK	20 GRF	1102.5		57.0D				
	2950	GORK	20 GRF	1103.0	1121.0	57.0	10.0			
	2800	OTTA	20 GRF	1220.0	1240.0	50.0	3.4	1.7		
	610	SGMR	8 S	1709.6	1709.8	1.2	22.0			QL=6 ST=2 TYP=3
	410	PALE	49 GB	1709.6	1709.8	.5	1100.0			QL=6 ST=2 TYP=6
	245	SGMR	49 GB	1709.6	1709.8	1.4	1199.0			QL=6 ST=2 TYP=6
	410	SGMR	49 GB	1709.6	1709.8	1.2	580.0			QL=6 ST=2 TYP=6
	245	PALE	49 GB	1709.6	1709.8	.5	2500.0			QL=6 ST=2 TYP=6
	2800	OTTA	1 S	1709.8	1709.9	1.0	2.2	1.1		
	2800	OTTA	23 GRF	1805.0	1828.0	155.0	9.4	4.6		
	2800	OTTA	4 S/F	1809.0	1810.9	3.5	13.2	3.4		
	9400	HUAN	21 GRF	1818.7	1857.8	116.5	8.2	4.8		0
	9400	HUAN	2 S/F	1847.1	1850.4	8.0	13.1	4.2		0
2800	OTTA	4 S/F	1849.0	1850.3	4.0	73.0	13.2			
1415	SGMR	4 S/F	1849.6	1851.6	4.0	26.0			QL=6 ST=2 TYP=3	
2695	SGMR	8 S	1849.8	1850.5	2.0	48.0			QL=6 ST=2 TYP=3	
610	SGMR	47 GB	1850.5	1851.6	1.5	54.0			QL=6 ST=2 TYP=5	
2695	PALE	8 S	1850.8	1851.1	1.2	43.0			QL=6 ST=2 TYP=3	
9400	HUAN	1 S	2003.1	2004.5	3.5	4.9	3.0		0	
3750	TYKW	21 GRF	2125.0	2155.0	240.0	6.0	3.0			
3750	TYKW	5 S	2126.0	2126.4	1.0	4.0	1.5			
08	29	UPIC	43 NS	0614.9		541.8				
	33	UPIC	43 NS	0615.0		567.0				
	100	HIRA	42 SER	0025.5	0030.6	9.5	1200.0			WL
	245	LEAR	47 GB	0030.8	0030.8	1.2	210.0			QL=6 ST=2 TYP=5
	3750	TYKW	5 S	0031.0	0033.6	7.0	2.0	.7		
	2000	TYKW	8 S	0109.3	0109.4	.3	3.0	1.0		
	245	LEAR	8 S	0238.1	0238.8	.7	16.0			QL=6 ST=2 TYP=3
	245	PALE	8 S	0243.8	0244.0	1.2	23.0			QL=6 ST=2 TYP=3
	2000	TYKW	20 GRF	0400.0	0425.0	60.0	1.5	.7		
	3750	TYKW	20 GRF	0400.0	0425.0	60.0	1.5	.7		
	1000	TYKW	5 S	0529.0	0529.2	.6	5.0	1.5		
	9100	GORK	20 GRF	0544.0	0700.0	276.0D	10.0			
	2950	GORK	21 GRF	0544.7	0654.0	376.0D	11.0			
	3750	TYKW	20 GRF	0554.0	0610.0	40.0	2.0	1.0		
	2000	TYKW	21 GRF	0557.0	0708.0	120.0	7.0	3.0		
	3750	TYKW	21 GRF	0639.0	0657.0	80.0	7.0	4.0		
	9400	TYKW	21 GRF	0639.0	0700.0	50.0D	6.0	4.0D		RAIN
	3750	TYKW	5 S	0642.0	0643.8	4.0	19.0	8.0		
	6100	KISV	2 S/F	0642.0	0643.2	4.0	11.0			
	6100	KISV	21 GRF	0642.0	0720.0	100.0	6.0			
3000	IZMI	5 S	0642.2	0643.8	3.0	18.0	9.0			
9400	TYKW	5 S	0642.5	0643.7	4.0	3.0	1.0			
4995	LEAR	4 S/F	0642.8	0643.3	4.0	20.0			QL=6 ST=2 TYP=3	

SOLAR RADIO EMISSION
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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10-22)	Mean W/m ² Hz		
08	8800	LEAR	4 S/F	0642.8	0643.6	2.8	9.0			QL=6 ST=2 TYP=3
	2695	LEAR	4 S/F	0642.8	0643.6	4.3	20.0			QL=6 ST=2 TYP=3
	2695	ATHN	8 S	0642.8	0643.8	2.0	9.0			QL=6 ST=2 TYP=3
	4995	ATHN	4 S/F	0642.8	0644.1	2.2	11.0			QL=6 ST=2 TYP=3
	2000	TYKW	5 S	0643.0	0643.8	3.0	4.0	1.5		
	2000	TYKW	45 C	0646.0	0649.0	5.0	2.0	1.0		
	113	POTS	4 S/F	0646.2	0646.4	1.1	120.0	10.0		
	3750	TYKW	5 S	0648.0	0649.0	3.0	2.0	1.0		
	3100	CRIM	3 S	0651.2	0652.8	4.0	19.0	6.0		
	3100	CRIM	29 PBI	0655.2	0657.0	56.0	6.0	2.0		
	8800	ATHN	8 S	0703.3	0704.0	1.0	20.0			QL=6 ST=2 TYP=3
	260	ONDR	8 S	0735.9	0735.9	.1	6.0			
	260	ONDR	8 S	0741.3	0741.3	.1	7.0			
	245	LEAR	8 S	0825.1	0825.3	.2	13.0			QL=6 ST=2 TYP=3
	15000	KISV	2 S/F	0855.1	0856.9	2.5	18.0			
	6100	KISV	40 F	0856.8	0856.9	1.5	3.0			
	930	BORD	8 S	0915.2	0915.4	.4	48.0	2.0		
	260	ONDR	8 S	0917.9	0917.9	.1	4.0			
	6100	KISV	40 F	0951.5	0951.8	3.0	5.0			
	430	KRAK	8 S	1116.5	1116.5	.2	19.0			
	430	KRAK	42 SER	1210.5	1247.0	39.0	90.0			
	260	ONDR	8 S	1246.5	1246.6	.1	11.0			
	260	ONDR	8 S	1325.9	1326.1	.4	81.0			
	930	BORD	8 S	1329.8	1329.8	.1	17.0	1.0		
	2800	OTTA	260 FAL	1420.0	1450.0	30.0	-2.6	-1.6		
	2800	OTTA	240 R	1945.0	2020.0	35.0	3.2	1.6		
	2800	OTTA	2 S/F	2135.5	2135.9	1.5	4.2			
	3750	TYKW	5 S	2146.0	2149.0	15.0	4.0	1.5		
	200	HIRA	46 C	2357.8		1.0				0
09	410	PALE	43 NS	0110.8	0118.6	174.2D	61.0			QL=6 ST=2 TYP=1
	245	PALE	43 NS	0110.8	0200.8	174.2D	29.0			QL=6 ST=2 TYP=1
	245	LEAR	43 NS	0127.6	0726.3	511.4D	28.0			QL=6 ST=2 TYP=1
	410	LEAR	43 NS	0320.6	0952.5	398.4D	29.0			QL=6 ST=2 TYP=1
	100	HIRA	43 NS	0400.0	0218.0	160.0	15.0	10.0		WR
	33	UPIC	43 NS	0544.4	1111.6	675.6D				
	29	UPIC	43 NS	0548.3	1112.0	671.7D				
	127	TORN	43 NS	0918.0		245.0		5.0		V=0, DISTURBED
	200	GORK	43 NS	0920.7		160.0D		5.0		
	100	GORK	43 NS	0928.7		120.0		10.0		
	245	PALE	43 NS	1656.0	2056.8	274.0	23.0			QL=6 ST=2 TYP=1
	208	VORO	44 NS	2200.0E		300.0D		14.0		
	245	LEAR	43 NS	2356.6	0114.3	602.4D	68.0			QL=6 ST=2 TYP=1
	2695	PENT	21 GRF	0005.0	0030.0	90.0	17.0			
	2000	TYKW	45 C	0009.0	0034.9	30.0	46.0	12.0		
	1000	TYKW		0010.0	0022.7		61.0			
	1000	TYKW	45 C	0010.0	0032.5	76.0	152.0	12.0		
	3750	TYKW	21 GRF	0010.0	0032.5	130.0	18.0	8.0		
	9400	TYKW	21 GRF	0010.0	0035.0	130.0	21.0	10.0		
	1000	TYKW		0010.0	0051.5		23.0			
	100	HIRA	46 C	0010.0	0027.5	77.0	2200.0	78.0		0
	2840	PEKG	40 F	0013.0	0016.4	20.0	8.2			
	200	HIRA	46 C	0013.0	0022.8	40.6	49.0	8.0		WT
	3750	TYKW	5 S	0014.0	0015.2	4.0	6.0	1.5		
	1415	MANI	40 F	0014.5	0035.0	20.5U	108.2	36.1		
	2695	LEAR	4 S/F	0014.8	0015.1	10.8	17.0			QL=6 ST=2 TYP=3
	2695	PENT	1 S	0015.0	0015.2	1.2	4.8	2.2		
	9395	PEKG	20 GRF	0015.0	0040.3	55.0	39.2	13.1		
	4995	LEAR	4 S/F	0015.1	0015.1	10.5	11.0			QL=6 ST=2 TYP=3
	1415	LEAR	4 S/F	0015.1	0015.1	10.5	11.0			QL=6 ST=2 TYP=3
	8800	LEAR	4 S/F	0015.6	0016.5	10.0	10.0			QL=6 ST=2 TYP=3
	610	LEAR	47 GB	0015.6	0017.1	10.0	34.0			QL=6 ST=2 TYP=5
610	PALE	47 GB	0016.5	0022.5	11.1	390.0			QL=6 ST=2 TYP=5	
500	HIRA	42 SER	0016.5	0032.1	41.0	300.0			SR	
15400	LEAR	8 S	0017.6	0017.6	1.0	13.0			QL=6 ST=2 TYP=3	
410	LEAR	47 GB	0017.6	0018.8	8.0	16.0			QL=6 ST=2 TYP=5	
245	LEAR	47 GB	0017.6	0020.3	8.0	27.0			QL=6 ST=2 TYP=5	
1415	PALE	4 S/F	0020.3	0022.5	3.3	19.0			QL=6 ST=2 TYP=3	
410	PALE	49 GB	0021.1	0024.5	6.5	610.0			QL=6 ST=2 TYP=6	
3750	TYKW	45 C	0022.0	0024.7	5.0	4.0	1.5			
8800	PALE	4 S/F	0022.1	0023.8	5.5	18.0			QL=6 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10-22)	Mean (W/m ² Hz)		
09	2695	PALE	8 S	0022.5	0023.5	1.1	27.0			QL=6 ST=2 TYP=3
	245	PALE	47 GB	0022.8	0023.0	1.2	110.0			QL=6 ST=2 TYP=5
	2695	PENT	4 S/F	0023.2	0023.5	1.0	19.2			
	4995	PALE	8 S	0023.8	0023.8	1.0	13.0			QL=6 ST=2 TYP=3
	610	LEAR	49 GB	0025.6	0028.1	14.5	280.0			QL=6 ST=2 TYP=6
	4995	LEAR	20 GRF	0025.6	0028.1	14.5	28.0			QL=6 ST=2 TYP=2
	15400	LEAR	20 GRF	0025.6	0029.6	14.5	20.0			QL=6 ST=2 TYP=2
	8800	LEAR	20 GRF	0025.6	0029.8	14.5	30.0			QL=6 ST=2 TYP=2
	1415	LEAR	47 GB	0025.6	0030.1	14.5	33.0			QL=6 ST=2 TYP=5
	410	LEAR	47 GB	0025.6	0032.3	14.5	160.0			QL=6 ST=2 TYP=5
	245	LEAR	4 S/F	0025.6	0034.3	10.2	40.0			QL=6 ST=2 TYP=3
	2695	LEAR	47 GB	0025.6	0034.8	14.5	50.0			QL=6 ST=2 TYP=5
	3750	TYKW	5 S	0027.5	0028.2	1.5	6.0	1.5		
	410	PALE	20 GRF	0027.6	0028.0	7.4	38.0			QL=6 ST=2 TYP=2
	4995	PALE	4 S/F	0027.6	0028.1	7.4	20.0			QL=6 ST=2 TYP=3
	610	PALE	49 GB	0027.6	0028.1	7.4	239.0			QL=6 ST=2 TYP=6
	8800	PALE	20 GRF	0027.6	0029.3	7.4	28.0			QL=6 ST=2 TYP=2
	1415	PALE	47 GB	0029.5	0029.8	5.5	20.0			QL=6 ST=2 TYP=5
	15400	PALE	8 S	0031.3	0032.3	1.2	17.0			QL=6 ST=2 TYP=3
	2695	PALE	8 S	0032.0	0032.6	1.1	13.0			QL=6 ST=2 TYP=3
	245	PALE	4 S/F	0032.5	0033.5	2.5	20.0			QL=6 ST=2 TYP=3
	2840	PEKG	3 S	0033.0	0035.0	3.0	40.9	8.8		
	2695	PENT	4 S/F	0034.2	0034.9	1.5	30.0	15.0		
	1415	PALE	47 GB	0035.0	0035.1	1.6	139.0			QL=6 ST=2 TYP=5
	610	PALE	47 GB	0035.0	0035.1	11.0	119.0			QL=6 ST=2 TYP=5
	410	PALE	20 GRF	0035.0	0035.1	3.3	19.0			QL=6 ST=2 TYP=2
	4995	PALE	20 GRF	0035.0	0035.5	11.0	22.0			QL=6 ST=2 TYP=2
	8800	PALE	20 GRF	0035.0	0035.5	11.0	36.0			QL=6 ST=2 TYP=2
	15400	PALE	4 S/F	0035.3	0035.6	10.7	33.0			QL=6 ST=2 TYP=3
	2000	TYKW	30 PBI	0039.0		100.0	7.0	3.0		
	4995	LEAR	4 S/F	0040.1	0040.1	3.7	28.0			QL=6 ST=2 TYP=3
	2695	LEAR	47 GB	0040.1	0040.1	3.7	50.0			QL=6 ST=2 TYP=5
	410	LEAR	47 GB	0040.1	0040.1	1.0	460.0			QL=6 ST=2 TYP=5
	1415	LEAR	47 GB	0040.1	0040.1	3.7	130.0			QL=6 ST=2 TYP=5
	8800	LEAR	20 GRF	0040.1	0041.8	4.2	34.0			QL=6 ST=2 TYP=2
	15400	LEAR	20 GRF	0040.1	0041.8	3.7	27.0			QL=6 ST=2 TYP=2
	610	LEAR	47 GB	0040.1	0044.0	8.2	96.0			QL=6 ST=2 TYP=5
	4995	PALE	20 GRF	0046.0	0046.8	2.3	18.0			QL=6 ST=2 TYP=2
	15400	PALE	20 GRF	0046.0	0046.8	2.5	23.0			QL=6 ST=2 TYP=2
	8800	PALE	20 GRF	0046.0	0047.0	3.0	31.0			QL=6 ST=2 TYP=2
	410	PALE	47 GB	0046.3	0048.1	3.0	54.0			QL=6 ST=2 TYP=5
	610	PALE	8 S	0047.1	0047.3	1.0	33.0			QL=6 ST=2 TYP=3
	410	LEAR	47 GB	0050.0	0051.6	2.8	290.0			QL=6 ST=2 TYP=5
	410	PALE	47 GB	0051.5	0051.6	1.3	270.0			QL=6 ST=2 TYP=5
	610	LEAR	8 S	0051.6	0051.6	1.0	49.0			QL=6 ST=2 TYP=3
	410	LEAR	47 GB	0054.1	0056.3	3.9	189.0			QL=6 ST=2 TYP=5
	410	PALE	47 GB	0054.8	0056.3	3.3	219.0			QL=6 ST=2 TYP=5
	610	LEAR	47 GB	0056.3	0056.3	1.5	59.0			QL=6 ST=2 TYP=5
	410	LEAR	8 S	0100.1	0100.3	.2	26.0			QL=6 ST=2 TYP=3
	3750	TYKW	28 PRE	0105.0	0111.0	6.0	3.0	1.5		
9400	TYKW	28 PRE	0106.0	0111.0	5.0	4.0	2.0			
2000	TYKW	45 C	0106.0	0112.0	10.0	10.0	4.0			
100	HIRA	46 C	0106.5	0114.5	24.0	34.0	10.0		0	
245	LEAR	47 GB	0107.3	0109.1	3.5	91.0			QL=6 ST=2 TYP=5	
2840	PEKG	45 C	0110.0	0114.6	8.0	28.1	6.7			
9395	PEKG	45 C	0110.0	0114.7	20.0D	92.8				
208	VORO	45 C	0110.0	0122.0	20.0	34.0				
9400	TYKW	45 C	0111.0	0114.8	9.0	89.0	30.0			
3750	TYKW	45 C	0111.0	0114.8	7.0	45.0	15.0			
2695	PENT	4 S/F	0111.5	0115.0	6.0	19.2	6.4			
2695	LEAR	8 S	0111.8	0113.3	1.5D	16.0			QL=6 ST=2 TYP=3	
17000	NOBE	1 S	0111.9	0114.8	9.0	61.0			R	
4995	LEAR	47 GB	0112.6	0114.6	4.4	60.0			QL=6 ST=2 TYP=5	
8800	LEAR	47 GB	0112.6	0114.6	5.7	100.0			QL=6 ST=2 TYP=5	
4995	PALE	47 GB	0112.8	0114.8	4.2	68.0			QL=6 ST=2 TYP=5	
8800	PALE	47 GB	0112.8	0114.8	5.5	110.0			QL=6 ST=2 TYP=5	
2695	PALE	8 S	0113.1	0114.6	1.5D	18.0			QL=6 ST=2 TYP=3	
15400	LEAR	47 GB	0113.1	0114.8	5.7	70.0			QL=6 ST=2 TYP=5	
245	LEAR	47 GB	0113.5	0114.6	14.1	43.0			QL=6 ST=2 TYP=5	
15400	PALE	47 GB	0113.5	0114.8	4.5	74.0			QL=6 ST=2 TYP=5	
245	PALE	47 GB	0113.6	0114.5	10.2	56.0			QL=6 ST=2 TYP=5	

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OUTSTANDING OCCURRENCES

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean (W/m ² Hz)	Int	Remarks
09	410	LEAR	8 S	0114.1	0114.6	1.5	20.0			QL=6 ST=2 TYP=3
	410	PALE	8 S	0114.5	0114.6	1.1	18.0			QL=6 ST=2 TYP=3
	3750	TYKW	29 PBI	0118.0		10.0	3.0	1.5		
	9400	TYKW	29 PBI	0120.0		20.0	8.0	3.0		
	245	PALE	47 GB	0123.8	0123.8	5.3	50.0			QL=6 ST=2 TYP=5
	2000	TYKW	8 S	0138.3	0138.4	.2	49.0	10.0		
	1000	TYKW	45 C	0139.3	0139.4	2.0	5.0	1.0		
	1000	TYKW	21 GRF	0147.0	0158.0	40.0	2.0	1.0		
	500	HIRA	46 C	0200.0	0201.6	3.0	450.0	100.0		SR
	2000	TYKW	45 C	0200.5	0200.9	2.5	13.0	2.0		
	3750	TYKW	5 S	0200.5	0201.0	2.5	7.0	2.0		
	1000	TYKW	45 C	0200.5	0202.0	2.0	108.0	16.0		
	410	LEAR	49 GB	0200.6	0200.8	2.7	600.0			QL=6 ST=2 TYP=6
	610	LEAR	47 GB	0200.6	0202.1	2.7	490.0			QL=6 ST=2 TYP=5
	410	PALE	49 GB	0201.3	0201.8	2.0	530.0			QL=6 ST=2 TYP=6
	610	PALE	47 GB	0201.5	0202.1	1.8	460.0			QL=6 ST=2 TYP=5
	610	LEAR	8 S	0214.8	0215.0	.5	22.0			QL=6 ST=2 TYP=3
	610	LEAR	4 S/F	0247.0	0250.1	4.0	15.0			QL=6 ST=2 TYP=3
	410	LEAR	4 S/F	0247.5	0247.8	3.6	13.0			QL=6 ST=2 TYP=3
	2000	TYKW	45 C	0257.5	0258.2	5.0	3.0	1.0		
	9395	PEKG	45 C	0257.5	0301.3	7.5	20.0	6.8		
	3750	TYKW	5 S	0258.0E	0300.0U	7.0D	4.0D	2.0D		
	9400	TYKW	45 C	0258.0	0301.3	6.0	17.0	4.0		
	8800	LEAR	4 S/F	0259.8	0301.1	4.3	24.0			QL=6 ST=2 TYP=3
	4995	LEAR	4 S/F	0300.3	0301.1	2.8	11.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0300.8	0301.1	1.5	29.0			QL=6 ST=2 TYP=3
	245	LEAR	8 S	0301.0	0301.1	.8	27.0			QL=5 ST=2 TYP=3
	410	PALE	8 S	0301.0	0301.1	1.1	21.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0308.5	0308.6	1.0	13.0			QL=6 ST=2 TYP=3
	1000	TYKW	20 GRF	0310.0	0317.0	30.0	2.0	1.0		
	610	LEAR	8 S	0313.3	0314.0	.8	34.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0314.6	0315.1	1.7	22.0			QL=6 ST=2 TYP=3
	3750	TYKW	5 S	0315.0	0322.6	20.0	4.0	1.5		
	650	GORK	2 S/F	0407.7	0410.5	4.2	8.7			
	3750	TYKW	45 C	0409.0	0409.8	6.0	7.0	1.0		
	9400	TYKW	45 C	0409.0	0409.9	2.0	7.0	2.0		
	500	HIRA	45 C	0409.4	0409.4	1.3	550.0	150.0		WL
	200	GORK	2 S/F	0409.5	0410.5	1.7	20.0			
	410	LEAR	47 GB	0409.6	0409.6	1.9	390.0			QL=6 ST=2 TYP=5
	2950	GORK	1 S	0409.6	0409.8	1.3	7.8	3.6		
	2000	TYKW	45 C	0409.6	0409.9	1.5	21.0	3.0		
	1000	TYKW	45 C	0409.7	0409.9	2.0	5.0	2.0		
	950	GORK	2 S/F	0409.7	0409.9	1.6	3.0			
	100	GORK	4 S/F	0410.4	0411.0	1.3	100.0			
	245	LEAR	49 GB	0410.5	0410.6	1.1	11000.0			QL=6 ST=2 TYP=6
	610	LEAR	8 S	0410.5	0410.6	.3	17.0			QL=6 ST=2 TYP=3
	245	LEAR	47 GB	0521.5	0521.6	1.0	210.0			QL=6 ST=2 TYP=5
	410	LEAR	8 S	0521.8	0522.1	1.2	36.0			QL=6 ST=2 TYP=3
	610	LEAR	8 S	0521.8	0522.8	1.0	27.0			QL=6 ST=2 TYP=3
	100	GORK	4 S/F	0544.7	0545.1	2.4	100.0D			
410	LEAR	47 GB	0559.1	0559.8	.7	67.0			QL=6 ST=2 TYP=5	
610	LEAR	8 S	0559.1	0559.8	.7	36.0			QL=6 ST=2 TYP=3	
245	LEAR	47 GB	0559.3	0600.1	1.0	100.0			QL=1 ST=2 TYP=5	
410	LEAR	8 S	0602.0	0602.0	.6	9.0			QL=6 ST=2 TYP=3	
610	LEAR	8 S	0602.0	0602.5	.6	21.0			QL=6 ST=2 TYP=3	
2950	GORK	23 GRF	0701.8	0716.0	53.7	.1				
2000	TYKW	45 C	0709.0	0713.5	7.0	20.0	8.0			
3750	TYKW	45 C	0709.0	0713.5	11.0	51.0	13.0			
9400	TYKW	45 C	0709.0	0713.7	13.0	180.0	42.0			
1000	TYKW	45 C	0709.0	0713.8	8.0	8.0	4.0			
2840	PEKG	45 C	0709.0	0713.5	11.0	30.7	8.2			
9395	PEKG	45 C	0709.0	0714.3	23.0	171.0	13.5			
950	GORK	22 GRF	0709.2	0713.6	14.7	9.0				
6100	KISV		0709.5	0712.6		30.0				
6100	KISV	46 C	0709.5	0713.6	15.0	80.0				
6100	KISV		0709.5	0714.7		55.0				
6100	KISV		0709.5	0717.8		20.0				
2695	ATHN	4 S/F	0709.8	0713.5	11.0	31.0			QL=6 ST=2 TYP=3	
19600	BERN	4 S/F	0709.8	0713.6	18.0	105.0				
3000	IZMI	5 S	0709.8	0713.6	5.5	32.0	15.0			
3100	BERN	3 S	0709.8	0713.6	18.0	45.0				

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

SEPTEMBER 1982

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m ² Hz)	Mean		
09	8400	BERN	4 S/F	0709.8	0713.6	18.0	215.0			
	11800	BERN	4 S/F	0709.8	0713.6	18.0	250.0			
	430	KRAK	45 C	0710.0	0711.7	7.0	350.0	49.0		
	15000	KISV	45 C	0710.0	0713.6	12.5	196.0			
	9100	GORK	4 S/F	0710.0	0713.6	6.7	195.0			
	4995	ATHN	47 GB	0710.0	0713.8	10.3	82.0			QL=6 ST=2 TYP=5
	2650	DWIN	2 S/F	0710.0	0714.0	5.0	30.0	15.0		
	15000	KISV		0710.0	0714.7		141.0			
	2695	LEAR	4 S/F	0710.1	0713.3	5.0	37.0			QL=6 ST=2 TYP=3
	1415	ATHN	4 S/F	0710.1	0713.6	7.5	11.0			QL=6 ST=2 TYP=3
	17000	NOBE	7 C	0710.1	0713.7	10.0	113.0			R
	8800	ATHN	47 GB	0710.1	0713.8	10.2	110.0			QL=6 ST=2 TYP=5
	8800	LEAR	47 GB	0710.3	0713.6	9.3	200.0			QL=6 ST=2 TYP=5
	500	HIRA	45 C	0710.5	0714.5	10.0	40.0	15.0		WL
	4995	LEAR	47 GB	0710.6	0713.6	8.2	83.0			QL=6 ST=2 TYP=5
	2950	GORK	4 S/F	0710.8	0713.2	3.5	25.0			
	1415	LEAR	4 S/F	0710.8	0713.6	5.0	13.0			QL=6 ST=2 TYP=3
	650	GORK	20 GRF	0710.8	0713.7	7.7	3.0			
	15400	LEAR	47 GB	0711.6	0713.5	8.2	169.0			QL=6 ST=2 TYP=5
	260	ONDR	47 GB	0711.9	0724.0U	37.0	34.0	11.0		
	410	LEAR	47 GB	0712.1	0713.5	6.9	119.0			QL=6 ST=2 TYP=5
	2000	TYKW	29 PBI	0716.0	0716.0	15.0	3.0	1.0		
	9100	GORK	30 PBI	0716.7	0716.8	292.0	49.0			
	9100	GORK	1 S	0717.5	0717.7	.6	16.0	8.0		
	245	LEAR	8 S	0717.6	0717.6	1.0	27.0			QL=6 ST=2 TYP=3
	3750	TYKW	29 PBI	0720.0	0720.0	20.0	4.0	2.0		
	9400	TYKW	29 PBI	0722.0	0722.0	20.0	6.0	3.0		
	6100	KISV	31 ABS	0725.0	0740.0	35.0	-3.0			
	245	LEAR	8 S	0731.8	0731.8	1.0	22.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0731.8	0732.0	.8	7.0			QL=6 ST=2 TYP=3
	1415	LEAR	47 GB	0744.8	0744.8	.3	57.0			QL=6 ST=2 TYP=5
	15000	KISV	31 ABS	0825.0	0839.0	35.0	-26.0			
	245	LEAR	8 S	0840.6	0840.6	.2	10.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0840.6	0840.6	.2	15.0			QL=6 ST=2 TYP=3
	2950	GORK	23 GRF	0854.0	0949.0	190.0D	13.0			
	2650	DWIN	1 S	0857.0	0857.0	1.0	50.0	20.0		
	6100	KISV	28 PRE	0903.5	0911.5	23.0	16.0			
	1470	POTS	21 GRF	0905.0	1049.0	295.0	21.0			
	2840	PEKG	45 C	0907.0	0911.5	7.0	11.9	8.6		
	3000	POTS	21 GRF	0907.0	0911.7	193.0	19.0			
	9395	PEKG	1 S	0907.0	0911.8	8.0	9.5	4.6		
	3100	BERN	41 F	0907.2	0931.3	56.0	89.0			
	3000	IZMI	4 S/F	0907.5	0912.0	5.6	17.0	9.0		
	950	GORK	2 S/F	0907.8	0911.5	5.3	3.0			
	260	ONDR	46 C	0907.9	0908.1	9.5	54.0	12.0		
	2650	DWIN	1 S	0908.0	0912.0	8.0	10.0	5.0		
	9500	POTS	21 GRF	0908.0	0930.5	197.0	59.0			
	2950	GORK	1 S	0908.1	0908.5	.9	5.9			
	11800	BERN	41 F	0909.4	0930.4	54.0	55.0			
	8400	BERN	41 F	0909.4	0931.2	54.0	80.0			
2695	ATHN	4 S/F	0910.0	0911.6	3.0	10.0			QL=6 ST=2 TYP=3	
4995	ATHN	4 S/F	0910.0	0911.6	3.3	17.0			QL=6 ST=2 TYP=3	
8800	ATHN	4 S/F	0910.0	0911.8	3.5	10.0			QL=6 ST=2 TYP=3	
2950	GORK	1 S	0910.5	0911.4	2.6	11.0				
2695	LEAR	8 S	0910.6	0911.3	1.9	17.0			QL=6 ST=2 TYP=3	
4995	LEAR	8 S	0910.6	0911.5	2.0	21.0			QL=6 ST=2 TYP=3	
650	GORK	2 S/F	0910.8	0913.7	3.4	3.3				
3000	IZMI	7 C	0926.0	0931.0	13.0	89.0	32.0			
6100	KISV		0926.2	0929.6		50.0				
6100	KISV	45 C	0926.2	0930.3	18.0	70.0U				
430	KRAK	45 C	0927.0	0935.0	10.0	100.0	20.0			
650	GORK	23 GRF	0927.0	1031.9	153.0D	58.0				
200	GORK	4 S/F	0927.7	0932.4	7.9	30.0D				
15000	KISV	45 C	0927.8	0930.4	16.0	30.0				
9395	PEKG	45 C	0928.0	0929.7	8.0	15.9	5.5			
2840	PEKG	45 C	0928.0	0931.5	9.0	35.5	11.4			
1470	POTS	4 S/F	0928.0	0931.8	7.0	50.0				
930	BORD	40 F	0928.0	1118.0	212.0	392.0	45.0			
234	POTS	27 RF	0928.0	1119.0	231.0	200.0				
4995	ATHN	47 GB	0928.3	0931.5	7.2	72.0			QL=6 ST=2 TYP=5	
1415	ATHN	47 GB	0928.3	0931.6	7.2	50.0			QL=6 ST=2 TYP=5	

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

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Sep 82

SEPTEMBER 1982

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10-22)	Mean W/m ² Hz)		
09	9100	GORK	4 S/F	0928.4	0931.1	6.9	54.0			
	2950	GORK	45 C	0928.5	0929.6	6.0	32.0			
	2950	GORK		0928.5	0930.2		35.0			
	3000	POTS	4 S/F	0928.5	0931.0	8.0	76.0			
	2950	GORK		0928.5	0931.4		57.0			
	950	GORK	23 GRF	0928.7	1100.0	151.0D	73.0			
	2695	LEAR	47 GB	0928.8	0931.3	7.8	70.0			QL=6 ST=2 TYP=5
	2695	ATHN	47 GB	0929.0	0931.5	6.5	56.0			QL=6 ST=2 TYP=5
	8800	ATHN	4 S/F	0929.0	0931.5	6.5	38.0			QL=6 ST=2 TYP=3
	2650	DWIN	45 C	0929.0	0932.0	15.0	70.0	30.0		
	113	POTS	27 RF	0929.0	1058.0	145.0	35.0			
	650	GORK	2 S/F	0929.1	0931.7	7.0	9.7			
	410	LEAR	4 S/F	0929.1	0934.8	5.7D	34.0			QL=6 ST=2 TYP=3
	1415	LEAR	47 GB	0929.3	0932.1	6.5	53.0			QL=6 ST=2 TYP=5
	204	IZMI	5 S	0930.0	0932.3	3.7	26.0	17.0		
	610	LEAR	47 GB	0930.3	0931.8	3.5	20.0			QL=6 ST=2 TYP=5
	100	GORK	46 C	0930.4	0930.5	.6	170.0			
	100	GORK		0930.4	0930.8		190.0			
	245	LEAR	8 S	0932.0	0932.1	1.3	27.0			QL=6 ST=2 TYP=3
	2650	DWIN	1 S	0933.0	0933.0	1.0	25.0	10.0		
	808	ONDR	46 C	0940.3	0941.8	3.0	250.0	88.0		
	950	GORK	2 S/F	0940.6	0941.5	1.9	140.0			
	650	GORK	40 F	0940.7	0942.3	2.0	15.0			
	2950	GORK	2 S/F	0941.2	0941.7	1.3	20.0			
	810	KRAK	4 S/F	0941.2	0943.5	2.3U	74.0	30.0		
	204	IZMI	25 R	0946.0	1125.0	134.0D	130.0	80.0		
	260	ONDR	49 GB	0951.8	1118.0	136.0	131.0	86.0		
	430	KRAK	49 GB	0952.5	1114.5U	187.0	700.0D	170.0		
	430	KRAK		0952.5	1118.5U		700.0D			
	410	LEAR	49 GB	0953.3	0953.6	4.7	1899.0			QL=5 ST=2 TYP=6
	245	LEAR	4 S/F	0953.3	0954.1	4.3	100.0			QL=5 ST=2 TYP=3
	6100	K1SV	2 S/F	0956.0	0956.7	4.0	8.0			
	1415	ATHN	47 GB	0956.1	0957.0	1.5	139.0			QL=6 ST=2 TYP=5
	2695	ATHN	8 S	0956.5	0957.0	1.1	31.0			QL=6 ST=2 TYP=3
	3000	POTS	3 S	0956.5	0957.0	1.1	34.0			
	950	GORK	2 S/F	0956.5	0957.0	.8D	42.0			
	1470	POTS	4 S/F	0956.5	0957.4	1.3	108.0			
	810	KRAK	49 GB	0956.5	1117.5	160.0	700.0	53.0		
	2950	GORK	4 S/F	0956.6	0957.0	.8	26.0			
	1415	LEAR	47 GB	0956.8	0956.8	1.3	119.0			QL=5 ST=2 TYP=5
	1470	POTS	40 F	1006.0	1033.5	34.0	69.0			
	2650	DWIN	1 S	1024.0	1024.0	1.0	25.0	10.0		
	650	GORK	25 R	1038.3	1114.4	46.0	450.0			
	808	ONDR	49 GB	1045.8	1115.6	44.3	98.0	14.1		
	536	ONDR	49 GB	1046.8	1117.5U	93.0	266.0	185.0		
	610	SGMR	49 GB	1049.6	1052.8	15.7	83.0			QL=6 ST=2 TYP=6
	245	SGMR	47 GB	1049.8	1051.1	15.5	27.0			QL=6 ST=2 TYP=5
	410	SGMR	47 GB	1050.3	1053.1	15.0	24.0			QL=6 ST=2 TYP=5
	234	POTS	42 SER	1056.9	1110.4	14.0	100.0	1.0		
	1415	SGMR	8 S	1058.8	1059.1	1.3	29.0			QL=6 ST=2 TYP=3
650	GORK	46 C	1059.2	1059.8	1.3	590.0				
650	GORK		1059.2	1100.0		609.0				
33	UPIC	48 C	1100.2	1111.6	32.3					
29	UPIC	48 C	1100.3	1112.0	32.5					
410	SGMR	49 GB	1105.3	1105.3	9.5	219.0			QL=6 ST=2 TYP=6	
245	SGMR	47 GB	1105.3	1106.1	9.5	90.0			QL=6 ST=3 TYP=5	
610	SGMR	49 GB	1105.3	1107.3	9.5	370.0			QL=6 ST=2 TYP=6	
1415	SGMR	47 GB	1106.0	1106.6	8.8	43.0			QL=6 ST=3 TYP=5	
950	GORK	46 C	1109.0	1115.6	19.5	168.0				
950	GORK		1109.0	1122.8		195.0				
950	GORK		1109.0	1125.8		166.0				
1470	POTS	45 C	1109.5	1124.5	46.0	395.0				
2695	SGMR	4 S/F	1110.0	1112.1	4.8	29.0			QL=6 ST=2 TYP=3	
8800	SGMR	8 S	1111.1	1111.6	1.2	23.0			QL=6 ST=2 TYP=3	
245	SGMR	47 GB	1114.8	1114.8	11.5	130.0			QL=6 ST=3 TYP=5	
410	SGMR	49 GB	1114.8	1114.8	11.5	470.0			QL=6 ST=2 TYP=6	
1415	SGMR	49 GB	1114.8	1114.8	11.5	260.0			QL=6 ST=2 TYP=6	
610	SGMR	49 GB	1114.8	1115.1	11.5	740.0			QL=6 ST=2 TYP=6	
2695	SGMR	20 GRF	1114.8	1115.1	11.5	22.0			QL=6 ST=2 TYP=2	
8800	SGMR	4 S/F	1114.8	1116.8	11.5	23.0			QL=6 ST=2 TYP=3	
410	SGMR	47 GB	1126.3	1126.3	10.0	310.0			QL=6 ST=2 TYP=5	

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

SEPTEMBER 1982

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10-22)	Mean (W/m ² Hz)			
09	8800	SGMR	20 GRF	1126.3	1126.3	10.0	24.0			QL=6 ST=2 TYP=2	
	2695	SGMR	4 S/F	1126.3	1126.3	3.5	38.0			QL=6 ST=2 TYP=3	
	610	SGMR	47 GB	1126.3	1126.3	10.0	189.0			QL=6 ST=2 TYP=5	
	1415	SGMR	20 GRF	1126.3	1126.5	10.0	30.0			QL=6 ST=2 TYP=2	
	4995	SGMR	8 S	1128.0	1128.1	1.1	17.0			QL=6 ST=2 TYP=3	
	1415	SGMR	47 GB	1136.3	1136.5	12.3	86.0			QL=6 ST=2 TYP=5	
	2695	SGMR	20 GRF	1136.3	1136.5	12.3	21.0			QL=6 ST=2 TYP=2	
	8800	SGMR	20 GRF	1136.3	1136.6	9.5	28.0			QL=6 ST=2 TYP=2	
	245	SGMR	20 GRF	1136.3	1136.6	12.3	39.0			QL=6 ST=2 TYP=2	
	610	SGMR	47 GB	1136.3	1136.6	12.3	110.0			QL=6 ST=2 TYP=5	
	410	SGMR	47 GB	1136.3	1136.8	12.3	96.0			QL=6 ST=2 TYP=5	
	4995	SGMR	8 S	1137.1	1137.8	1.2	16.0			QL=6 ST=2 TYP=3	
	1415	SGMR	8 S	1148.6	1148.6	2.0	46.0			QL=6 ST=2 TYP=3	
	410	SGMR	47 GB	1148.6	1148.6	9.4	89.0			QL=6 ST=2 TYP=5	
	2695	SGMR	20 GRF	1148.6	1148.8	9.4	22.0			QL=6 ST=2 TYP=2	
	610	SGMR	47 GB	1148.6	1149.1	9.4	189.0			QL=6 ST=2 TYP=5	
	245	SGMR	20 GRF	1148.6	1149.3	9.4	26.0			QL=6 ST=2 TYP=2	
	4995	SGMR	4 S/F	1148.6	1149.5	9.4	17.0			QL=6 ST=2 TYP=2	
	1415	SGMR	20 GRF	1158.0	1158.1	4.3	29.0			QL=6 ST=2 TYP=3	
	410	SGMR	47 GB	1158.0	1158.1	8.8	94.0			QL=6 ST=2 TYP=5	
	245	SGMR	20 GRF	1158.0	1158.1	8.8	20.0			QL=6 ST=2 TYP=2	
	610	SGMR	47 GB	1158.0	1158.1	8.8	100.0			QL=6 ST=2 TYP=5	
	4995	SGMR	20 GRF	1158.0	1200.0	8.8	18.0			QL=6 ST=2 TYP=2	
	2695	SGMR	20 GRF	1158.0	1202.1	8.8	27.0			QL=6 ST=2 TYP=2	
	410	SGMR	47 GB	1206.8	1206.8	9.5	119.0			QL=6 ST=2 TYP=5	
	610	SGMR	47 GB	1206.8	1206.8	9.5	139.0			QL=6 ST=2 TYP=5	
	245	SGMR	20 GRF	1206.8	1207.0	2.8	21.0			QL=6 ST=2 TYP=2	
	410	SGMR	47 GB	1216.3	1216.3	14.8	90.0			QL=6 ST=2 TYP=5	
	610	SGMR	47 GB	1216.3	1216.6	14.8	87.0			QL=6 ST=2 TYP=5	
	245	SGMR	8 S	1219.1	1220.0	1.2	16.0			QL=6 ST=2 TYP=3	
	410	SGMR	47 GB	1231.1	1231.8	26.2	80.0			QL=6 ST=2 TYP=5	
	610	SGMR	47 GB	1231.1	1233.0	26.2	110.0			QL=6 ST=2 TYP=5	
	610	SGMR	20 GRF	1257.3	1257.6	19.7	30.0			QL=6 ST=2 TYP=2	
	410	SGMR	20 GRF	1257.3	1258.1	19.7	47.0			QL=6 ST=2 TYP=2	
	410	SGMR	20 GRF	1317.0	1317.1	21.8	27.0			QL=6 ST=2 TYP=2	
	610	SGMR	8 S	1317.1	1317.8	2.0	21.0			QL=6 ST=2 TYP=3	
	2800	OTTA	1 S	1351.0	1354.0	6.0	2.8		1.4		
	610	SGMR	4 S/F	1508.5	1509.5	3.1	30.0				QL=6 ST=2 TYP=3
	2695	SGMR	4 S/F	1546.8	1548.8	3.0	20.0				QL=6 ST=2 TYP=3
	2800	OTTA	260 FAL	1600.0	1655.0	55.0	-6.2		-3.1		
9400	HUAN	2 S/F	1910.6	1915.5	8.1	4.6		1.8		R	
2800	OTTA	260 FAL	1955.0	2030.0	35.0	-7.4		-3.7			
410	LEAR	8 S	2242.1	2242.3	.2	13.0				QL=6 ST=2 TYP=3	
245	LEAR	47 GB	2242.3	2242.3	.2	160.0				QL=6 ST=2 TYP=5	
245	LEAR	8 S	2258.3	2258.5	.7	13.0				QL=6 ST=2 TYP=3	
410	LEAR	8 S	2258.3	2258.5	.7	2.0				QL=6 ST=2 TYP=3	
245	LEAR	8 S	2326.6	2326.8	.4	11.0				QL=6 ST=2 TYP=3	
245	LEAR	8 S	2350.1	2350.3	.5	20.0				QL=6 ST=2 TYP=3	
10	410	LEAR	43 NS	0819.0	0821.0	6.3	11.0			QL=6 ST=2 TYP=1	
	245	PALE	43 NS	1656.0	1732.3	298.0	29.0			QL=6 ST=2 TYP=1	
	410	PALE	43 NS	1656.0	1756.3	298.0	21.0			QL=6 ST=2 TYP=1	
	245	SGMR	43 NS	1715.6	1728.1	185.7	58.0			QL=6 ST=2 TYP=1	
	200	HIRA	44 NS	2014.0E	0645.0	737.0D	10.0		3.0		WR
	245	LEAR	43 NS	2241.0	0528.3	679.0D	34.0				QL=6 ST=2 TYP=1
	3750	TYKW	21 GRF	0130.0	0145.0	45.0	2.0		1.0		
	3750	TYKW	5 S	0156.0	0159.0	9.0	2.0		.7		
	1000	TYKW	45 C	0430.0	0434.8	15.0	182.0		22.0		
	2000	TYKW	45 C	0433.5	0433.9	3.5	3.0		1.0		
	3750	TYKW	21 GRF	0434.0	0459.0	120.0	4.0		2.0		
	3750	TYKW	5 S	0434.6	0434.8	.5	2.5		1.0		
	3750	TYKW	5 S	0436.0	0438.5	6.0	3.0		1.0		
	3750	TYKW	5 S	0444.0	0444.6	1.5	3.0		1.0		
	3750	TYKW	5 S	0523.0	0523.8	2.0	3.0		1.0		
	1000	TYKW	45 C	0523.4	0523.7	.5	10.0		2.0		
	1415	LEAR	8 S	0523.5	0523.8	.3	15.0				QL=6 ST=2 TYP=3
	2000	TYKW	8 S	0529.0	0529.1	.2	57.0		10.0		
	3750	TYKW	5 S	0537.0	0537.5	1.5	3.0		1.0		
	9100	GORK	21 GRF	0730.4	0831.0	270.0D	13.0				
536	ONDR	40 F	0823.8	0828.0U	8.0	8.0		8.0			
1415	MANI	3 S	0825.4	0825.6	2.1	14.9		5.0			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10-22 W/m ² Hz)	Mean (2 Hz)		
10	4995	MANI	3 S	0825.6	0826.3	1.1	33.9	11.3		
	1470	POTS	4 S/F	0826.0	0827.0	5.0	19.0			
	200	GORK	48 C	0826.1	0826.4	2.1	20.0			
	410	LEAR	4 S/F	0826.1	0826.6	5.0	21.0			QL=6 ST=2 TYP=3
	200	GORK		0826.1	0827.6		30.0D			
	430	KRAK	42 SER	0826.2	0826.4	.5	33.0			
	3100	BERN	45 C	0826.5	0826.9	5.0	34.0			
	2000	TYKW	45 C	0826.5	0826.9	2.5U	20.0U	7.0U		
	950	GORK	5 S	0826.5	0827.0	5.1	18.6			
	1000	TYKW	45 C	0826.5	0827.0	2.5U	26.0U	13.0U		
	11800	BERN	45 C	0826.5	0827.6	5.0	65.0			
	3750	TYKW	45 C	0826.5	0827.6	2.5U	33.0	14.0U		
	9500	POTS	4 S/F	0826.5	0827.6	4.5	54.0			
	9400	TYKW	45 C	0826.5	0827.6	3.5	52.0	15.0		RAIN
	8400	BERN	45 C	0826.5	0827.6	5.0	98.0			
	2695	LEAR	4 S/F	0826.6	0826.8	2.2	26.0			QL=6 ST=2 TYP=3
	2950	GORK	45 C	0826.6	0826.9	1.6	20.0			
	930	BORD	3 S	0826.6	0827.0	3.4	26.0	7.0		
	6100	KISV		0826.6	0827.0		33.0			
	2950	GORK		0826.6	0827.6		16.0			
	8800	LEAR	47 GB	0826.6	0827.6	3.2	76.0			QL=6 ST=2 TYP=5
	4995	LEAR	4 S/F	0826.6	0827.6	2.5	47.0			QL=6 ST=2 TYP=3
	6100	KISV	45 C	0826.6	0827.7	5.0	46.0			
	650	GORK	3 S	0826.6	0827.9	5.6	28.0			
	1415	LEAR	4 S/F	0826.8	0826.8	2.3	27.0			QL=6 ST=2 TYP=3
	810	KRAK	3 S	0826.8	0827.0	4.0	17.0	10.0		
	260	ONDR	40 F	0826.8	0827.9	23.6	25.0	6.0		
	15400	LEAR	4 S/F	0826.8	0828.0	3.0	29.0			QL=6 ST=2 TYP=3
	610	LEAR	4 S/F	0826.8	0828.0	2.3	16.0			QL=6 ST=2 TYP=3
	2650	DWIN	2 S/F	0827.0	0827.0	2.0	20.0	10.0		
	1415	ATHN	4 S/F	0827.0	0827.3	2.5	20.0			QL=6 ST=2 TYP=3
	2695	ATHN	4 S/F	0827.0	0827.3	3.3	49.0			QL=6 ST=2 TYP=3
	4995	ATHN	4 S/F	0827.0	0827.8	3.3	46.0			QL=6 ST=2 TYP=3
	8800	ATHN	47 GB	0827.0	0827.8	3.1	57.0			QL=6 ST=2 TYP=5
	808	ONDR	40 F	0827.0	0828.0U	4.0	17.0	14.0		
	245	LEAR	8 S	0827.1	0827.5	1.0	18.0			QL=6 ST=3 TYP=3
	3000	IZMI	5 S	0827.3	0827.6	1.8	35.0	15.0		
	2950	GORK	29 PBI	0828.2	0828.3	212.0D	6.6			
	245	LEAR	8 S	0828.8	0828.8	1.0	18.0			QL=6 ST=2 TYP=3
	9100	GORK	45 C	0829.6	0829.9	3.3	40.0			
9100	GORK		0829.6	0830.6		70.0				
6100	KISV	29 PBI	0831.1	0832.0	14.0	3.0				
100	HIRA	46 C	0837.4	0839.7	2.8	720.0U	114.0U		0, SUNSET	
100	GORK	4 S/F	0838.2	0839.8	2.5	360.0				
410	LEAR	4 S/F	0907.1	0907.1	50.0	5.0			QL=6 ST=2 TYP=3	
245	LEAR	4 S/F	0907.1	0907.1	10.0	22.0			QL=6 ST=2 TYP=3	
410	LEAR	47 GB	0929.0	0929.1	1.1	160.0			QL=6 ST=2 TYP=5	
430	KRAK	42 SER	0929.0	0929.5	3.7	600.0				
245	LEAR	8 S	0949.1	0949.3	.2	37.0			QL=6 ST=2 TYP=3	
260	ONDR	41 F	0954.8	0955.3	3.7	10.0	7.0			
430	KRAK	8 S	0956.0	0956.0	.1	7.0				
810	KRAK	8 S	1021.5	1021.7	.3	16.0				
650	GORK	4 S/F	1036.0	1037.8	2.2	160.0				
430	KRAK	8 S	1124.5	1124.5	.1	25.0				
260	ONDR	8 S	1124.6	1124.7	.3	27.0				
430	KRAK	8 S	1232.3	1232.4	.2	25.0				
930	BORD	42 SER	1548.6	1549.7	21.4	176.0	11.0			
2800	OTTA	1 S	2144.0	2144.2	1.0	4.8	2.0			
3750	TYKW	5 S	2144.0	2144.3	1.5	4.0	1.5			
2000	TYKW	5 S	2144.0	2144.4	1.5	10.0	3.0			
11	200	GORK	44 NS	0406.0E		406.0D		5.0		
	260	ONDR	44 NS	0838.0E	1133.0	453.0D	8.0			
	208	VORO	44 NS	2200.0E		300.0D		12.0		
	245	LEAR	43 NS	2240.0	0129.6	680.0D	119.0			QL=6 ST=2 TYP=1
	3750	TYKW	5 S	0023.5	0024.1	1.5	11.0	4.0		RAIN
	2000	TYKW	5 S	0023.5	0024.3	2.5	8.0	2.0		
	1000	TYKW	45 C	0023.6	0023.9	.7	96.0	18.0		
	4995	LEAR	8 S	0023.8	0024.1	1.0	13.0			QL=6 ST=2 TYP=3
	2695	PENT	3 S	0023.8	0024.3	3.0	12.0	4.0		
	2695	LEAR	8 S	0024.1	0024.1	1.0	13.0			QL=6 ST=2 TYP=3

SOLAR RADIO EMISSION
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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 ⁻²² W/m ² Hz)	Mean (W/m ² Hz)			
11	8800	LEAR	8 S	0024.1	0024.1	1.0	11.0			QL=6 ST=2 TYP=3	
	3750	TYKW	29 PBI	0025.0		5.0	2.0	1.0			
	610	LEAR	47 GB	0318.6	0318.8	.4	51.0			QL=6 ST=2 TYP=5	
	2000	TYKW	8 S	0431.7	0431.8	.2	5.0	1.5			QL=6 ST=2 TYP=3
	410	LEAR	4 S/F	0523.1	0525.0	2.5	16.0				QL=6 ST=2 TYP=3
	3750	TYKW	45 C	0524.5	0525.8	1.5	40.0	8.0			RAIN
	2950	GORK	1 S	0524.9	0525.2	1.1	3.9	1.8			
	2000	TYKW	45 C	0525.0	0525.8	2.0	2.0	.5			
	4995	LEAR	8 S	0525.0	0525.3	.3	17.0				QL=6 ST=2 TYP=3
	1000	TYKW	8 S	0527.9	0528.0	.2	9.0	2.0			
	3750	TYKW	5 S	0607.0	0607.6	2.0	7.0	1.5			
	2950	GORK	1 S	0607.4	0607.5	.6	5.2	2.6			
	3750	TYKW	5 S	0634.0	0634.7	2.0	9.0	5.0			
	2000	TYKW	5 S	0634.0	0634.7	2.0	2.0	1.0			
	2840	PEKG	1 S	0634.0	0635.3	2.0	7.9	4.8			
	9395	PEKG	1 S	0634.0	0635.5	2.0	4.4	1.7			
	2840	PEKG	21 GRF	0634.0	0639.2	14.5	4.3	2.1			
	9395	PEKG	21 GRF	0634.0	0639.2	24.0	7.4	3.0			
	2950	GORK	22 GRF	0634.1	0635.1	18.5	6.5				
	9100	GORK	22 GRF	0634.5	0639.2	51.0	12.0				
	6100	KISV	45 C	0635.0	0638.8	7.0	9.0				
	3750	TYKW	30 PBI	0636.0	0636.0	15.0	3.0	1.5			
	2000	TYKW	5 S	0636.0	0636.8	1.5	4.0	1.0			
	2000	TYKW	5 S	0638.8	0639.0	.5	2.0	.7			
	3750	TYKW	5 S	0638.8	0639.0	.5	3.0	1.0			
	6100	KISV		0638.8	0639.1		7.0				
	2950	GORK	20 GRF	0702.7	0837.0	223.00	6.5				
	430	KRAK	42 SER	1103.0	1245.0	102.0	21.0				
	2800	OTTA	20 GRF	1345.0	1355.0	45.0	2.2				
	2800	OTTA	1 S	1529.0	1529.8	4.0	9.4	3.0			
	1415	ATHN	4 S/F	1529.3	1530.1	3.3	5.0				QL=6 ST=2 TYP=3
	2695	ATHN	4 S/F	1529.3	1530.1	3.2	11.0				QL=6 ST=2 TYP=3
	4995	ATHN	4 S/F	1529.3	1530.1	2.3	13.0				QL=6 ST=2 TYP=3
8800	ATHN	4 S/F	1529.3	1530.1	2.3	7.0				QL=6 ST=2 TYP=3	
2800	OTTA	20 GRF	2055.0	2110.0	35.0	3.0	1.5				
12	260	ONDR	44 NS	0652.0E	1230.0U	444.00	17.0				
	200	GORK	43 NS	0653.0		242.00		5.0			
	245	SGMR	43 NS	1610.6	1623.3	126.4	39.0				QL=6 ST=2 TYP=1
	245	LEAR	43 NS	2239.0	2246.5	681.00	45.0				QL=5 ST=2 TYP=1
	2000	TYKW	20 GRF	0010.0	0024.0	50.0	2.0	1.0			
	3750	TYKW	20 GRF	0010.0	0024.0	50.0	2.0	1.0			
	3750	TYKW	20 GRF	0316.0	0320.0	75.0	2.0	1.0			RAIN
	2000	TYKW	21 GRF	0316.0	0333.0	70.0	2.0	1.0			RAIN
	2000	TYKW	5 S	0330.0	0330.5	1.0	8.0	1.0			
	2000	TYKW	45 C	0349.0	0355.1	15.0	2.0	1.0			
	2950	GORK	20 GRF	0647.7	0701.0	72.0	7.7				
	2000	TYKW	20 GRF	0650.0	0701.0	40.0	3.0	1.0			
	6100	KISV	20 GRF	0651.0	0701.0	45.0	6.0				
	3750	TYKW	20 GRF	0652.0	0701.0	35.0	5.0	2.0			
	9100	GORK	20 GRF	0652.3	0701.0	33.0	9.0				
	15400	LEAR	4 S/F	0659.6	0701.1	2.2	11.0				QL=5 ST=2 TYP=3
	100	GORK	4 S/F	0718.5	0719.5	2.6	55.0				
	245	LEAR	8 S	0823.3	0823.5	.3	43.0				QL=6 ST=2 TYP=3
	410	LEAR	8 S	0823.3	0823.5	.3	7.0				QL=6 ST=2 TYP=3
	610	LEAR	8 S	0844.3	0844.5	.3	4.0				QL=6 ST=2 TYP=3
	410	LEAR	8 S	0844.3	0844.5	.3	10.0				QL=6 ST=2 TYP=3
	245	LEAR	8 S	0844.3	0844.5	.3	18.0				QL=6 ST=2 TYP=3
	410	LEAR	8 S	0904.8	0904.8	.2	17.0				QL=5 ST=2 TYP=3
	610	LEAR	8 S	0904.8	0904.8	.2	5.0				QL=5 ST=2 TYP=3
	245	LEAR	8 S	0904.8	0904.8	.2	30.0				QL=5 ST=2 TYP=3
	610	LEAR	8 S	0925.1	0925.1	.2	5.0				QL=5 ST=2 TYP=3
	245	LEAR	8 S	0925.1	0925.1	.2	24.0				QL=5 ST=2 TYP=3
410	LEAR	8 S	0925.1	0925.1	.2	13.0				QL=5 ST=2 TYP=3	
33	UPIC	42 SER	1100.6	1213.3	129.5						
29	UPIC	42 SER	1100.7	1101.0U	126.8						
810	KRAK	8 S	1107.5	1107.7	.3	10.0					
2800	OTTA	27A RF	1205.0		155.0	4.8	2.4				
2800	OTTA	24 R	1205.0	1215.0	10.0	4.8	3.6				
2800	OTTA	24P R	1215.0		75.0	4.8					
2800	OTTA	1 S	1239.0	1240.5	4.0	4.0	2.2				

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean (W/m ² Hz)	Int	Remarks
12	2800	OTTA	22 GRF	1300.0	1310.0	25.0	6.4	4.0		
	2800	OTTA	26 FAL	1330.0	1440.0	70.0	-4.8	-2.4		
	2650	DWIN	45 C	1449.0	1450.0	5.0	65.0	30.0		
	2800	OTTA	21 GRF	1535.0	1635.0	260.0	18.2	9.1		
	3100	BERN	4 S/F	1544.8	1549.7	13.0	58.0			ONLY PAPER REC
	9400	HUAN	21 GRF	1546.8	1622.6	79.2	18.1	9.8		L
	15400	SGMR	4 S/F	1548.8	1549.8	4.0	37.0			QL=6 ST=2 TYP=3
	8800	SGMR	4 S/F	1548.8	1549.8	3.8	30.0			QL=6 ST=2 TYP=3
	1415	SGMR	49 GB	1548.8	1550.1	10.0	580.0			QL=6 ST=2 TYP=6
	2800	OTTA	46F C	1549.0	1550.0	10.0	67.0	16.8		
	9400	HUAN	1 S	1549.0	1549.8	5.7	14.8	10.0		L
	610	SGMR	47 GB	1549.0	1550.1	4.0	290.0			QL=6 ST=2 TYP=5
	2695	SGMR	47 GB	1549.1	1549.8	3.0	82.0			QL=6 ST=2 TYP=5
	4995	SGMR	4 S/F	1549.3	1550.6	3.3	20.0			QL=6 ST=2 TYP=3
	410	SGMR	8 S	1549.5	1549.8	1.3	23.0			QL=6 ST=2 TYP=3
	245	SGMR	47 GB	1552.0	1556.0	9.0	310.0			QL=6 ST=2 TYP=5
	8800	SGMR	4 S/F	1604.3	1605.1	16.7	22.0			QL=6 ST=2 TYP=3
	610	SGMR	47 GB	1604.3	1605.6	11.0	260.0			QL=6 ST=2 TYP=5
	1415	SGMR	47 GB	1604.3	1605.8	20.7	74.0			QL=6 ST=2 TYP=5
	4995	SGMR	4 S/F	1604.3	1607.1	20.7	20.0			QL=6 ST=2 TYP=3
	245	SGMR	47 GB	1604.6	1606.3	6.2	62.0			QL=6 ST=2 TYP=5
	2800	OTTA	1 S	1605.0	1606.0	2.0	2.8	1.4		
	410	SGMR	47 GB	1605.1	1605.6	2.2	73.0			QL=6 ST=2 TYP=5
	3750	TYKW	20 GRF	2130.0	2153.0	70.0	4.0	2.0		
245	LEAR	47 GB	2329.3	2329.5	1.0	79.0			QL=5 ST=2 TYP=5	
13	200	GORK	44 NS	0358.0E		478.0D		5.0		
	100	GORK	43 NS	0420.0		137.0		5.0		
	200	HIRA	43 NS	0423.0	0545.0	147.0	17.0	6.0		MR
	100	HIRA	43 NS	0423.0	0600.0	170.0	25.0	5.0		WR
	260	ONDR	44 NS	0627.0E	1357.0	465.0D		8.0		
	245	SGMR	43 NS	1552.0	1553.5	465.0	78.0			QL=6 ST=2 TYP=1
	245	PALE	43 NS	1645.0	2129.3	675.0	110.0			QL=6 ST=3 TYP=1
	245	LEAR	43 NS	2238.0	2300.8	682.0D	90.0			QL=6 ST=2 TYP=1
	100	HIRA	46 C	0044.7	0045.3	1.3	50.0	21.0		O
	100	HIRA	42 SER	0111.1	0113.0	4.4	590.0			WL
	200	HIRA	42 SER	0113.0	0113.3	5.6	21.0			WR
	100	HIRA	41 F	0154.6	0155.4	1.5	180.0			O
	200	HIRA	42 SER	0218.7	0219.2	9.0	86.0			O
	100	HIRA	42 SER	0219.0	0219.2	7.6	890.0			WL
	2000	TYKW	20 GRF	0332.0	0338.0	30.0	2.0	1.0		
	3750	TYKW	20 GRF	0333.0	0339.0	50.0	3.5	1.5		
	9400	TYKW	20 GRF	0333.0	0339.0	30.0	4.0	1.5		
	2950	GORK	23 GRF	0421.0	0500.0	111.0	6.4			
	3750	TYKW	20 GRF	0433.0	0500.0	115.0	10.0	4.0		
	2000	TYKW	28 PRE	0435.0	0455.0	20.0	3.0	1.5		
	9100	GORK	22 GRF	0437.9	0459.7	120.0	20.0			
	9400	TYKW	20 GRF	0446.0	0500.0	70.0	12.0	5.0		
	650	GORK	22 GRF	0447.4	0535.0	58.4	7.0			
	410	LEAR	20 GRF	0451.0	0520.1	52.5	15.0			QL=6 ST=3 TYP=2
	500	HIRA	27 RF	0452.0	0509.5	52.0	8.0	5.0		SR
	2000	TYKW	45 C	0455.0	0459.4	15.0	12.0	5.0		
	1000	TYKW	45 C	0455.3	0455.4	.4	36.0	7.0		
	9395	PEKG	20 GRF	0456.0	0459.4	20.0	7.9	3.6		
	6100	KISV	20 GRF	0456.0	0500.0	74.0	6.0			
	2695	LEAR	4 S/F	0458.6	0459.1	5.5	13.0			QL=6 ST=2 TYP=3
	15400	LEAR	4 S/F	0458.6	0500.0	5.5	18.0			QL=6 ST=2 TYP=3
	4995	LEAR	8 S	0459.0	0459.8	1.0	5.0			QL=6 ST=2 TYP=3
	8800	LEAR	4 S/F	0459.0	0459.8	5.1	11.0			QL=6 ST=2 TYP=3
	1000	TYKW	45 C	0459.2	0459.3	.3	23.0	6.0		
	1000	TYKW	8 S	0500.0	0500.1	.3	9.0	1.5		
	2000	TYKW	29 PBI	0510.0		50.0	3.0	1.5		
1000	TYKW	45 C	0532.0	0538.6	11.0	6.0	2.0			
3750	TYKW	5 S	0635.0	0635.3	2.0	2.0	.7			
808	ONDR	8 S	0826.6	0826.7	.2	62.0				
113	POTS	42 SER	0927.5	0932.6	6.5	500.0	30.0		111	
200	GORK	46 C	0927.7	0928.0	6.0	35.0D				
100	GORK	46 C	0927.7	0928.5	6.6	100.0D				
200	GORK		0927.7	0932.8		35.0D				
100	GORK		0927.7	0933.4		100.0D				
204	IZMI	42 SER	0927.8	0932.6	6.0	103.0				

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10-22 W/m ²)	Mean (2 Hz)		
13	29	UPIC	45 C	0927.9	0928.4	.9				
	33	UPIC	45 C	0928.0	0928.0	1.5				
	930	BORD	41 F	0932.0	0932.8	2.0	33.0	4.0		
	810	KRAK	2 S/F	0932.3	0932.6	1.0	41.0	3.0		
	650	GORK	4 S/F	0932.4	0932.9	1.4	22.0			
	33	UPIC	45 C	0932.4	0933.5	2.1				
	430	KRAK	42 SER	0932.5	0932.5	.7	90.0			
	245	LEAR	8 S	0932.5	0932.6	.8	31.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0932.5	0932.6	1.3	24.0			QL=6 ST=2 TYP=3
	610	LEAR	8 S	0932.5	0933.0	1.3	33.0			QL=6 ST=2 TYP=3
	29	UPIC	45 C	0932.7	0933.7	1.8				
	536	ONDR	4 S/F	1032.3	1032.8	1.8	16.0	10.0		
	430	KRAK	8 S	1141.2	1141.2	.1	12.0			
	8800	PALE	49 GB	2026.5	2028.1	14.1	400.0			
	9400	TYKW	20 GRF	2325.0	2335.0	35.0	5.0	2.0		QL=1 ST=2 TYP=6
2000	TYKW	20 GRF	2328.0	2334.0	55.0	3.0	1.5			
3750	TYKW	20 GRF	2330.0	2334.0	35.0	2.0	1.0			
14	200	HIRA	43 NS	0025.0	0030.0	225.0	8.0	2.0		0
	200	GORK	44 NS	0353.0E		427.0D		5.0		
	260	ONDR	44 NS	0624.0E		466.0D	6.0U			
	245	PALE	43 NS	1645.0	0230.1	680.0D	169.0			QL=6 ST=2 TYP=1
	245	SGMR	43 NS	1732.1	1915.8	302.9D	520.0			QL=6 ST=2 TYP=1
	200	HIRA	43 NS	2150.0	0617.0	644.0D	15.0	5.0		WL
	208	VORO	44 NS	2200.0E		300.0D		11.0		
	245	LEAR	43 NS	2237.0	0140.3	684.0D	160.0			QL=6 ST=2 TYP=1
	1000	TYKW	47 GB	0109.0	0111.7	10.0	730.0	35.0		QL=6 ST=2 TYP=1
	500	HIRA	45 C	0109.0	0111.3	5.0	600.0	100.0		WR
	1000	TYKW		0109.0	0113.7		175.0			
	100	HIRA	46 C	0109.5	0113.2	7.0	6900.0	220.0		WL
	245	LEAR	47 GB	0109.6	0111.6	8.0	360.0			QL=6 ST=2 TYP=5
	200	HIRA	46 C	0109.7	0111.8	7.3	450.0	100.0		0
	9400	TYKW	5 S	0110.0	0113.1	6.0	60.0	12.0		
	2000	TYKW	45 C	0110.0	0113.8	7.0	115.0	11.0		
	3750	TYKW	45 C	0110.0	0113.8	6.0	24.0	7.0		
	2000	TYKW		0110.0	0112.5		100.0			
	208	VORO	45 C	0110.0	0113.0	7.0	200.0D			
	2840	PEKG	45 C	0110.0	0113.5	7.0	27.5	8.2		
	410	LEAR	49 GB	0110.1	0111.6	7.2	520.0			QL=6 ST=2 TYP=6
	610	LEAR	49 GB	0110.1	0111.6	6.7	900.0			QL=6 ST=2 TYP=6
	410	PALE	47 GB	0110.1	0111.6	4.4	440.0			QL=6 ST=2 TYP=5
	610	PALE	49 GB	0110.6	0111.6	4.2	860.0			QL=6 ST=2 TYP=6
	1415	LEAR	47 GB	0110.6	0111.6	6.4	380.0			QL=6 ST=2 TYP=5
	1415	PALE	47 GB	0111.0	0111.6	4.3	380.0			QL=6 ST=2 TYP=5
	2695	PENT	46F C	0111.3	0113.3	4.0	53.0	12.0		
	245	PALE	47 GB	0111.5	0111.6	3.0	400.0			QL=6 ST=2 TYP=5
	2695	LEAR	4 S/F	0111.5	0113.3	3.8	23.0			QL=6 ST=2 TYP=3
	35000	NAGO	5 S	0112.0	0114.0	5.0	14.0			
	8800	PALE	47 GB	0112.3	0113.0	3.0	78.0			QL=6 ST=2 TYP=5
	8800	LEAR	47 GB	0112.5	0113.1	3.0	59.0			QL=6 ST=2 TYP=5
	4995	LEAR	8 S	0112.5	0113.1	1.8	30.0			QL=6 ST=2 TYP=3
	4995	PALE	8 S	0112.5	0113.1	1.8	29.0			QL=6 ST=2 TYP=3
	17000	NOBE	1 S	0112.5	0113.1	2.5	39.0			0
	15400	LEAR	4 S/F	0112.5	0113.1	5.6	44.0			QL=6 ST=2 TYP=3
	15400	PALE	8 S	0112.8	0112.8	1.3	30.0			QL=6 ST=2 TYP=3
	2695	PALE	8 S	0112.8	0113.6	1.7	39.0			QL=6 ST=2 TYP=3
	3750	TYKW	29 PBI	0116.0		10.0	2.0	1.0		
	1000	TYKW	29 PBI	0119.0		10.0	1.5	.7		
100	HIRA	48 C	0119.0	0122.6	14.0	2400.0	430.0		WL	
245	LEAR	47 GB	0123.8	0123.8	1.0	67.0			QL=6 ST=2 TYP=5	
245	LEAR	8 S	0126.1	0126.3	1.2	47.0			QL=6 ST=2 TYP=3	
610	LEAR	8 S	0306.3	0306.3	.3	11.0			QL=6 ST=2 TYP=3	
650	GORK	2 S/F	0646.5	0646.8	1.8	7.0	2.5			
950	GORK	2 S/F	0646.5	0647.1	2.1	4.0				
430	KRAK	8 S	0734.3	0734.5	.5	13.0				
430	KRAK	8 S	0808.0	0808.3	.5	34.0				
430	KRAK	42 SER	0841.3	0903.5	43.5	70.0				
536	ONDR	40 F	0843.8	0851.8	33.0	11.0				
410	LEAR	8 S	0902.3	0902.5	.5	16.0			QL=6 ST=2 TYP=3	
100	GORK	4 S/F	0938.4	0940.0	2.5	80.0D				
113	POTS	41 F	0938.5	0940.0	2.5	350.0	20.0			

S O L A R R A D I O E M I S S I O N
O U T S T A N D I N G O C C U R R E N C E S

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S E P T E M B E R 1 9 8 2

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10-22 W/m ² Hz)	Mean (W/m ² Hz)		
14	200	GORK	4 S/F	0938.5	0940.1	4.5	30.0			
	33	UPIC	46 C	0938.8	0939.9	3.7				
	29	UPIC	46 C	0939.2	0940.8	2.9				
	650	GORK	46 C	0939.5	0940.1	2.9	5.0			
	950	GORK	4 S/F	0939.5	0940.1	1.2	13.5			
	650	GORK		0939.5	0940.8		5.0			
	930	BORD	41 F	0939.7	0940.0	1.3	19.0	3.0		
	810	KRAK	8 S	0940.0	0940.1	.3	20.0			
	430	KRAK	8 S	1018.5	1018.6	.5	50.0			
	430	KRAK	42 SER	1042.7	1043.2	.7	90.0			
	536	ONDR	8 S	1043.6	1043.6	.2	5.0			
	430	KRAK	42 SER	1056.5	1108.0	29.0	47.0			
	536	ONDR	41 F	1151.5	1152.3	1.1	5.0			
	430	KRAK	42 SER	1151.7	1152.1	1.3	66.0			
	430	KRAK	8 S	1202.8	1202.8	.2	26.0			
	610	SGMR	4 S/F	1216.3	1220.0	7.3	21.0			QL=5 ST=2 TYP=3
	536	ONDR	45 C	1217.3	1218.4	9.6	10.0	5.0		
	430	KRAK	41 F	1218.0	1220.3	12.0	22.0	9.0		
	410	SGMR	4 S/F	1218.3	1220.1	5.3	18.0			QL=5 ST=2 TYP=3
	536	ONDR	45 C	1223.7	1224.4	4.1	10.0	6.0		
	430	KRAK	2 S/F	1233.0	1234.5	2.5	29.0	12.0		
	113	POTS	8 S	1357.0	1357.0	.1	130.0	20.0		III
	9400	HUAN	20 GRF	1511.8	1520.7	37.4	3.7	1.2		0
	2800	OTTA	1 S	1526.5	1527.2	2.0	2.2	0.9		0
	9400	HUAN	20 GRF	1601.2	1619.4	43.6	5.6	3.5		0
	245	SGMR	8 S	1915.6	1915.8	1.4	520.0			QL=6 ST=2 TYP=3
	2800	OTTA	1 S	2015.0	2017.0	5.0	7.0	2.4		0
	100	HIRA	42 SER	2214.9	2215.2	9.5	1500.0			0
	410	PALE	8 S	2239.6	2239.8	1.2	24.0			QL=6 ST=2 TYP=3
	100	HIRA	42 SER	2345.7	2352.6	9.7	8000.0			WL
	200	HIRA	42 SER	2352.7	2352.9	.3	6800.0			0
245	LEAR	47 GB	2352.8	2353.1	1.5	480.0			QL=6 ST=2 TYP=5	
2695	PENT	3 S	2353.0	2353.3	1.0	15.0	5.0			
2000	TYKW	5 S	2353.0	2353.3	1.5	8.0	2.5			
3750	TYKW	5 S	2353.0	2353.4	1.0	10.0	3.0			
1000	TYKW	5 S	2353.0	2353.4	2.5	22.0	4.0			
610	LEAR	8 S	2353.0	2353.1	.8	2.0			QL=6 ST=2 TYP=3	
245	PALE	49 GB	2353.0	2353.1	1.3	590.0			QL=6 ST=2 TYP=6	
2695	LEAR	8 S	2353.1	2353.3	1.2	19.0			QL=6 ST=2 TYP=3	
1415	LEAR	8 S	2353.1	2353.3	1.0	18.0			QL=6 ST=2 TYP=3	
15	200	GORK	44 NS	0406.0E		475.0D		5.0		
	260	ONDR	44 NS	0655.0E	0850.0	446.0D	10.0U			
	245	PALE	43 NS	1645.0	0319.3	680.0D	57.0			QL=6 ST=2 TYP=1
	208	VORO	44 NS	2200.0E		300.0D		11.0		
	245	LEAR	43 NS	2236.0	0319.3	685.0D	74.0			QL=6 ST=2 TYP=1
	245	LEAR	8 S	0116.0	0116.6	1.3	35.0			QL=6 ST=2 TYP=3
	200	HIRA	42 SER	0143.9	0144.0	10.4	1300.0			0
	3750	TYKW	45 C	0153.0	0156.2	6.0	10.0	2.5		
	2000	TYKW	45 C	0153.0	0156.3	7.0	4.0	1.5		
	1000	TYKW	45 C	0153.0	0200.8	14.0	5.0	1.5		
	2840	PEKG	45 C	0153.0	0156.2	7.0	11.9	5.2		
	2840	PEKG	28 PRE	0200.0	0214.0	14.0	6.8	2.6		
	2000	TYKW	28 PRE	0202.0	0212.0	10.0	1.5	.7		
	1000	TYKW	45 C	0211.0	0220.3	19.0	16.0	3.0		
	3750	TYKW	45 C	0212.0	0221.6	13.0	47.0	16.0		
	2000	TYKW	45 C	0212.0	0221.7	16.0	28.0	9.0		
	9395	PEKG	20 GRF	0213.0	0221.8	32.0	30.3	12.4		
	2840	PEKG	46 C	0214.0	0221.8	10.0	57.4	21.4		
	100	HIRA	41 F	0215.2	0217.6	12.3	170.0			0
	200	HIRA	41 F	0215.3	0220.0	7.5	810.0			WL
	9400	TYKW	45 C	0216.0	0221.8	10.0	23.0	10.0		
	1415	LEAR	4 S/F	0216.6	0218.0	9.7	39.0			QL=6 ST=2 TYP=3
	2695	LEAR	4 S/F	0216.6	0219.6	9.0	28.0			QL=6 ST=2 TYP=3
	4995	LEAR	4 S/F	0216.6	0219.6	9.7	31.0			QL=6 ST=2 TYP=3
	8800	LEAR	4 S/F	0216.6	0219.8	9.7	23.0			QL=6 ST=2 TYP=3
	15400	LEAR	4 S/F	0217.3	0219.3	9.0	19.0			QL=6 ST=2 TYP=3
	17000	NOBE	20 GRF	0218.0	0221.8	9.0	14.0			0
245	LEAR	47 GB	0218.8	0219.6	5.8	100.0			QL=6 ST=2 TYP=5	
2840	PEKG	29 PBI	0224.0	0224.0	14.0	8.1	2.2			
3750	TYKW	29 PBI	0225.0		30.0	5.0	2.0			

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SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

SEPTEMBER 1982

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int.	Remarks
							Peak (10-22 W/m ² Hz)	Mean		
15	9400	TYKW	29 PBI	0226.0		30.0	4.0	2.0		
	2000	TYKW	29 PBI	0228.0		10.0	2.0	1.0		
	100	HIRA	8 S	0229.7	0230.0	.5	890.0			0
	200	HIRA	45 C	0229.8	0229.8	.8	2800.0	490.0		0
	1000	TYKW	29 PBI	0230.0		7.0	1.5	.5		
	245	LEAR	47 GB	0230.0	0230.1	1.1	180.0			QL=6 ST=2 TYP=5
	3750	TYKW	5 S	0518.0	0519.0	2.0	2.0	.7		
	200	GORK	4 S/F	0557.8	0559.5	6.5	35.0D			
	1000	TYKW	45 C	0558.0	0600.0U	7.0	6.0D	1.5D		
	2000	TYKW	45 C	0558.0	0600.6	6.0	20.0	4.0		
	9400	TYKW	20 GRF	0558.0	0602.0	30.0	10.0	3.0		
	3750	TYKW	5 S	0558.0	0603.0U	7.0	7.0D	3.0D		
	100	HIRA	46 C	0558.0	0559.5	5.6	120.0	30.0		0
	6100	KISV		0558.0	0600.6		11.0			
	100	GORK	4 S/F	0558.0	0600.6		90.0D			
	9395	PEKG	45 C	0558.0	0601.8	6.0	10.5	5.0		
	6100	KISV	46 C	0558.0	0602.4	7.0	16.0			
	113	POTS	45 C	0558.0	0609.5	22.0	350.0			III
	2695	LEAR	4 S/F	0558.1	0601.8	6.9	11.0			QL=6 ST=2 TYP=3
	650	GORK	46 C	0558.2	0601.5	6.1	44.0			
	650	GORK		0558.2	0602.4		43.0			
	500	HIRA	45 C	0558.3	0602.0	6.3	40.0	16.0		WL
	245	LEAR	47 GB	0558.5	0559.6	6.6	100.0			QL=6 ST=2 TYP=5
	950	GORK	4 S/F	0558.5	0601.3	7.0	16.0			
	200	HIRA	46 C	0558.6	0600.0U	4.1	270.0	142.0		0
	6100	KISV		0558.8	0601.8		14.0			
	9100	GORK	1 S	0559.0	0601.7	5.7	7.6			
	2840	PEKG	45 C	0559.0	0601.8	6.0	10.4	5.9		
	9100	GORK	20 GRF	0559.0	0602.2	14.5	13.0			
	610	LEAR	47 GB	0559.3	0601.5	5.7	61.0			QL=6 ST=2 TYP=5
	410	LEAR	4 S/F	0559.5	0559.6	5.6	27.0			QL=6 ST=2 TYP=3
	204	IZMI	7 C	0600.0	0601.9	2.3	120.0	65.0		
	1415	LEAR	4 S/F	0600.1	0601.6	4.9	18.0			QL=6 ST=2 TYP=3
	4995	LEAR	4 S/F	0601.5	0601.6	4.5	13.0			QL=6 ST=2 TYP=3
	8800	LEAR	4 S/F	0601.5	0601.6	5.5	13.0			QL=6 ST=2 TYP=3
	2000	TYKW	29 PBI	0604.0		20.0	2.5	1.0		
	9395	PEKG	29 PBI	0604.0	0613.7	16.0	9.2	4.0		
	3750	TYKW	29 PBI	0605.0		20.0	3.0	1.5		
	6100	KISV	29 PBI	0605.0	0605.0	25.0	6.0			
	2840	PEKG	29 PBI	0605.0	0610.7	5.7U	2.6	1.1		
	3100	CRIM	1 S	0658.6	0702.0	6.0	6.0	2.0		
	430	KRAK	42 SER	0704.5	0704.5	34.0	24.0			
	6100	KISV	21 GRF	0739.0	0750.8	53.0	5.0			
	3750	TYKW	21 GRF	0740.0	0747.0	40.0	3.0	1.5		
	2000	TYKW	21 GRF	0740.0	0747.0	30.0	3.0	1.5		
	2840	PEKG	21 GRF	0740.0	0747.8	39.0D	4.9	2.0U		
	1470	POTS	23 GRF	0742.0	0750.9	38.0	6.0			
	100	GORK	41 F	0745.0	0746.3	8.0	70.0			
	3000	POTS	23 GRF	0745.0	0750.7	38.0	11.0			
	950	GORK	22 GRF	0745.0	0750.8	30.0	5.0			
2950	GORK	21 GRF	0745.0	0753.0	48.0	3.8				
100	GORK		0745.0	0753.0		70.0				
200	GORK	41 F	0745.9	0746.4	7.1	15.0				
200	GORK		0745.9	0752.7		35.0				
1000	TYKW	45 C	0748.0U	0750.7	4.0U	6.0	1.5U			
9395	PEKG	20 GRF	0748.0	0801.7	19.0	4.2	1.1			
650	GORK	46 C	0748.5	0748.7	3.4	2.0				
650	GORK		0748.5	0750.7		6.0				
2840	PEKG	1 S	0749.6	0750.6	1.6	8.7	2.2			
245	LEAR	4 S/F	0749.6	0750.8	4.4	28.0			QL=6 ST=2 TYP=3	
2950	GORK	1 S	0749.9	0750.6	1.7	6.4	3.2			
2000	TYKW	5 S	0750.0	0750.7	3.0	7.0	1.5U			
3750	TYKW	5 S	0750.0	0750.7	3.0	7.0	2.0U			
9100	GORK	1 S	0750.2	0750.7	1.2	4.0	2.0			
245	LEAR	47 GB	0844.8	0845.0	1.3	110.0			QL=6 ST=2 TYP=5	
2950	GORK	1 S	0852.2	0853.3	2.5	6.4	3.2			
2650	DWIN	47 GB	0910.0	0922.0	15.0	280.0	140.0			
113	POTS	41 F	1026.4	1026.7	1.3	140.0	15.0		III	
234	POTS	4 S/F	1026.6	1026.7	.4	350.0	15.0		III	
204	IZMI	41 F	1026.7	1026.8	1.2	190.0				
234	POTS	8 S	1122.5	1122.5	.1	125.0	40.0			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean (W/m ² Hz)		
15	536	ONDR	4 S/F	1206.8	1208.9	3.7	36.0			
	430	KRAK	8 S	1208.8	1208.9	.3	100.0			
	33	UPIC	42 SER	1334.0	1339.4	15.5				
	113	POTS	42 SER	1337.5	1348.4	11.0	350.0	1.0		III
	29	UPIC	46 C	1338.2	1339.5	3.1				
	2800	OTTA	8 S	1338.8	1339.0	.5	2.2	1.1		
	930	BORD	41 F	1439.7	1439.7	.3	19.0	3.0		
	2800	OTTA	20 GRF	1645.0	1715.0	80.0	3.0	1.5		
	9400	HUAN	20 GRF	1658.4	1723.2	50.3	3.4	1.3		0
	2800	OTTA	28 PRE	1816.0	1819.0	6.0	7.2	5.3		
	2800	OTTA	4 S/F	1822.0	1823.8	6.0	165.0	63.0		
	9400	HUAN	4 S/F	1822.2	1823.8	4.8	174.7	78.0		R
	245	PALE	47 GB	1822.3	1822.5	3.2	490.0			QL=5 ST=2 TYP=5
	1415	SGMR	47 GB	1822.3	1823.8		70.0			QL=6 ST=1 TYP=5
	2695	SGMR	47 GB	1822.3	1823.8		189.0			QL=6 ST=1 TYP=5
	4995	SGMR	47 GB	1822.3	1823.8		239.0			QL=6 ST=1 TYP=5
	2695	PALE	47 GB	1822.3	1824.1	5.0	160.0			QL=6 ST=2 TYP=5
	1415	PALE	47 GB	1822.5	1822.8	4.6	68.0			QL=6 ST=2 TYP=5
	4995	PALE	47 GB	1822.5	1823.8	4.8	219.0			QL=6 ST=2 TYP=5
	8800	SGMR	47 GB	1822.6	1823.8		210.0			QL=6 ST=1 TYP=5
	8800	PALE	47 GB	1822.6	1823.8	5.2	210.0			QL=6 ST=2 TYP=5
	15400	SGMR	47 GB	1822.8	1823.8		119.0			QL=6 ST=1 TYP=5
	15400	PALE	47 GB	1822.8	1824.0	9.0	100.0			QL=6 ST=2 TYP=5
	610	PALE	4 S/F	1822.8	1824.1	3.5	49.0			QL=6 ST=2 TYP=3
	410	PALE	8 S	1823.5	1824.1	1.8	39.0			QL=6 ST=2 TYP=3
	9400	HUAN	29 PBI	1827.0	1827.0	31.2	18.5	7.8		R
	2800	OTTA	29 PBI	1828.0	1828.0	45.0	8.6	2.8		
	2800	OTTA	21 GRF	1950.0	2023.0	40.0	2.2	1.1		
	2800	OTTA	2 S/F	2019.0	2019.8	3.0	7.8	2.6		
	245	PALE	49 GB	2019.0	2019.3	3.3	1100.0			QL=5 ST=2 TYP=6
410	PALE	47 GB	2019.3	2019.5	1.5	52.0			QL=5 ST=2 TYP=5	
2695	PENT	21 GRF	2140.0	2300.0	140.0	4.8	2.4			
3750	TYKW	21 GRF	2150.0	2230.0	120.0	2.0	1.0			
2000	TYKW	21 GRF	2240.0	2257.0	50.0	2.0	1.0			
3750	TYKW	21 GRF	2248.0	2257.0	50.0	2.0	1.0			
3750	TYKW	5 S	2249.0	2249.6	2.0	3.0	1.0			
2695	PENT	1 S	2249.0	2250.0	6.0	3.4	1.7			
2000	TYKW	5 S	2249.0	2250.0	3.0	3.0	1.0			
200	HIRA	41 F	2313.1	2313.7	1.0	135.0			0	
16	260	ONDR	43 NS	1116.4		166.0D	6.0U			
	245	PALE	43 NS	1650.0	2346.5	670.0D	130.0			QL=6 ST=2 TYP=1
	610	LEAR	8 S	0136.1	0136.5	1.2	13.0			QL=6 ST=2 TYP=3
	200	HIRA	42 SER	0147.5	0149.6	4.0	100.0			WL
	100	HIRA	8 S	0149.5	0149.5	.3	2300.0			WL
	245	LEAR	8 S	0149.6	0149.8	1.0	39.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0150.0	0150.1	.8	17.0			QL=6 ST=2 TYP=3
	2840	PEKG	20 GRF	0207.0	0217.2	43.0	2.9	1.1		
	9395	PEKG	41 F	0213.0	0217.7	11.0	30.0	3.5		
	200	HIRA	42 SER	0316.0	0319.3	4.3	160.0			ML
	100	HIRA	45 C	0329.0	0329.2	.8	1600.0	318.0		WL
	200	HIRA	45 C	0509.5	0509.7	.9	280.0	60.0		WR
	100	HIRA	46 C	0509.5	0509.8	1.3	5100.0	870.0		WL
	200	GORK	4 S/F	0509.5	0510.0	1.1	35.0D			
	500	HIRA	8 S	0509.6	0509.6	.3	110.0			MR
	100	GORK	4 S/F	0509.7	0510.3	1.5	110.0D			
	245	LEAR	47 GB	0509.8	0510.0	.5	180.0			QL=6 ST=2 TYP=5
	610	LEAR	8 S	0509.8	0510.0	.5	19.0			QL=6 ST=2 TYP=3
	410	LEAR	47 GB	0509.8	0510.0	.5	139.0			QL=6 ST=2 TYP=5
	200	HIRA	45 C	0604.8	0605.0	1.0	130.0	35.0		WR
	204	IZMI	41 F	0605.0	0606.5	1.8	140.0			
	410	LEAR	8 S	0606.5	0606.6	1.3	35.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0610.8	0610.8	2.0	18.0			QL=6 ST=2 TYP=3
	100	HIRA	45 C	0626.1	0626.9	1.0	1300.0	328.0		0
	245	LEAR	49 GB	0626.3	0626.5		60000.0			QL=6 ST=3 TYP=6
	200	HIRA	8 S	0626.4	0626.6	.6	105.0			WR
	113	POTS	4 S/F	0626.4	0627.0	1.1	650.0	150.0		III
	204	IZMI	4 S/F	0626.5	0626.8	.8	60.0	30.0		
	29	UPIC	3 S	0626.7	0626.9	.5				
	33	UPIC	3 S	0626.8	0627.0	.5				
245	LEAR	47 GB	0652.8	0653.1	1.0	180.0			QL=6 ST=2 TYP=5	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10-22)	Mean W/m ² Hz		
16	100	GORK	4 S/F	0658.0	0659.3	1.3U	165.0			
	100	HIRA	41 F	0658.6	0658.7	.7	2000.0			0
	113	POTS	4 S/F	0658.6	0659.3	1.1	500.0	50.0		III
	200	HIRA	42 SER	0658.7	0704.3	5.7	320.0			WL
	200	GORK	4 S/F	0658.8	0658.9	.9	35.0D			
	245	LEAR	47 GB	0658.8	0659.0	1.0	57.0			QL=6 ST=2 TYP=5
	260	ONDR	4 S/F	0658.8	0659.0	1.2	45.0	30.0		
	204	IZMI	5 S	0704.2	0704.5	.6	250.0	150.0		
	245	LEAR	8 S	0704.3	0704.3	1.0	38.0			QL=6 ST=2 TYP=3
	260	ONDR	8 S	0704.6	0704.6	.2	113.0			
	410	LEAR	8 S	0826.1	0826.1	.2	17.0			QL=6 ST=2 TYP=3
	245	LEAR	47 GB	0826.1	0826.1	.2	55.0			QL=6 ST=2 TYP=5
	245	LEAR	8 S	0850.6	0850.8	.2	32.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0850.6	0850.8	.2	8.0			QL=6 ST=2 TYP=3
	204	IZMI	42 SER	0928.5	0936.5	9.5	100.0			
	100	GORK	41 F	0928.9	0929.1	8.1	40.0			
	100	GORK		0928.9	0936.7		35.0			
	245	LEAR	47 GB	0929.0	0929.5	2.6	53.0			QL=6 ST=2 TYP=5
	200	GORK	41 F	0929.6	0929.6	8.8	30.0D			
	200	GORK		0929.6	0936.8		30.0D			
	245	LEAR	47 GB	0936.3	0936.6	1.7	370.0			QL=6 ST=2 TYP=5
	234	POTS	4 S/F	0936.5	0936.7	.9	275.0	50.0		III
	260	ONDR	41 F	1029.0	1036.8	10.8	128.0			
	430	KRAK	8 S	1126.8	1126.8	.1	24.0			
9400	HUAN	20 GRF	1605.4	1626.2	53.6	3.7	2.7		0	
2800	OTTA	20 GRF	2025.0	2100.0	130.0	3.6	2.0		0	
200	HIRA	45 C	2321.2	2321.6	1.0	750.0	140.0		0	
100	HIRA	8 S	2321.3	2321.7	.5	480.0			0	
245	LEAR	47 GB	2321.3	2321.8	1.5	180.0			QL=6 ST=2 TYP=5	
17	260	ONDR	44 NS	0627.0E	1358.0U	461.0D				
	127	TORN	44 NS	0820.0E	0854.8	112.0D	20.0	5.0		V=1
	29	UPIC	43 NS	1231.0		239.0D				
	33	UPIC	43 NS	1231.0		239.0D				
	245	SGMR	43 NS	1605.5	1817.0	384.5D	110.0			QL=6 ST=2 TYP=1
	245	PALE	43 NS	1659.0	1906.1	661.0D	119.0			QL=6 ST=2 TYP=1
	208	VORO	44 NS	2200.0E		300.0D		14.0		
	245	LEAR	43 NS	2337.8	0142.1	624.2D	85.0			QL=6 ST=2 TYP=1
	9395	PEKG	3 S	0107.5	0108.5	3.0	37.4	24.0		
	208	VORO	3 S	0145.0	0146.0	2.0	200.0D			
	200	HIRA	45 C	0145.4	0145.6	1.6	1200.0	127.0		0
	100	HIRA	45 C	0145.4	0145.6	.8	2000.0	405.0		WL
	245	LEAR	8 S	0402.5	0403.5	1.1	25.0			QL=6 ST=2 TYP=3
	245	LEAR	8 S	0547.0	0547.1	.1	15.0			QL=6 ST=2 TYP=3
	245	LEAR	8 S	0552.1	0552.5	.5	15.0			QL=6 ST=2 TYP=3
	200	HIRA	42 SER	0731.5	0732.4	5.6	490.0			0
	100	HIRA	41 F	0731.6	0732.3	2.4	340.0			0
	113	POTS	4 S/F	0731.7	0732.5	1.1	140.0	15.0		III
	204	IZMI	41 F	0731.8	0732.0	7.0	400.0			
	245	LEAR	47 GB	0731.8	0732.1	3.8	400.0			QL=6 ST=2 TYP=5
	29	UPIC	3 S	0732.7	0733.0	.5				
	33	UPIC	2 S/F	0732.8	0732.9	.5				
	610	LEAR	8 S	0807.5	0807.6	.3	11.0			QL=6 ST=2 TYP=3
	245	LEAR	8 S	0807.5	0807.6	.5	10.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0807.5	0807.6	.3	6.0			QL=6 ST=2 TYP=3
	536	ONDR	8 S	0807.7	0807.8	.1	15.0			
	245	LEAR	9 S	0840.3	0840.3	.2	30.0			QL=1 ST=2 TYP=3
	536	ONDR	41 F	0919.9	0921.9	5.4	6.0			
	113	POTS	8 S	0937.5	0937.5	.2	125.0	40.0		
	430	KRAK	8 S	0939.8	0939.8	.1	13.0			
	6100	KISV	20 GRF	1134.0	1139.0	45.0	4.0			
	9100	GORK	20 GRF	1134.8	1137.8	24.7	9.0			
9500	POTS	20 GRF	1136.5	1137.5	49.0	8.0				
2950	GORK	20 GRF	1136.7	1139.0	13.6	3.2	1.6			
536	ONDR	8 S	1137.9	1137.9	.1	10.0				
1470	POTS	4 S/F	1139.0	1139.5	1.5	11.0				
113	POTS	42 SER	1304.5	1357.6	72.0	280.0	1.0		III	
234	POTS	42 SER	1305.0	1357.8	54.0	140.0	1.0		III	
2800	OTTA	23 GRF	1320.0	1400.0	450.0	9.0	4.4			
2800	OTTA	2 S/F	1324.0	1326.0	7.0	8.6	2.8			
9400	HUAN	20 GRF	1353.0	1402.0	21.0	5.0	2.4		0	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean (2 Hz)	Int	Remarks
17	2800	OTTA	3 S	1353.5	1355.8	4.5	13.0	5.8		
	536	ONDR	46 C	1355.8	1357.8	4.8	84.0	37.0		
	930	BORD	41 F	1356.0	1357.6	3.0	66.0	2.0		
	610	SGMR	8 S	1939.8	1940.1	1.0	20.0			QL=6 ST=2 TYP=3
	410	SGMR	8 S	1940.0	1940.1	.8	32.0			QL=6 ST=2 TYP=3
	245	SGMR	47 GB	1940.0	1940.1	.8	110.0			QL=6 ST=2 TYP=5
	245	PALE	47 GB	1940.1	1940.1	1.2	130.0			QL=6 ST=2 TYP=5
	410	PALE	8 S	1940.1	1940.1	1.2	35.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	2256.8	2257.0	.3	18.0			QL=6 ST=2 TYP=3
	245	LEAR	47 GB	2256.8	2257.0	.3	98.0			QL=6 ST=2 TYP=5
	245	LEAR	8 S	2259.8	2300.0	.3	40.0			QL=6 ST=2 TYP=3
	245	LEAR	8 S	2319.1	2319.3	.2	32.0			QL=6 ST=2 TYP=3
	208	VORO	3 S	2321.0	2322.0	2.0	200.00			
18	260	ONDR	44 NS	0636.0E		455.0D				
	245	LEAR	43 NS	2329.5	2329.6	209.6	73.0			QL=6 ST=2 TYP=1
	100	HIRA	8 S	0142.0	0142.1	.4	790.0			WL
	200	HIRA	42 SER	0142.1	0142.1	3.3	310.0			0
	200	HIRA	8 S	0233.3	0233.6	.5	70.0			0
	8800	LEAR	8 S	0302.8	0303.0	1.0	11.0			QL=6 ST=2 TYP=3
	9395	PEKG	20 GRF	0429.0	0507.8	46.0	7.9	2.6		
	2840	PEKG	20 GRF	0432.0	0456.3	49.0	8.3	4.0		
	245	LEAR	8 S	0450.1	0450.6	.9	23.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0450.1	0450.6	.9	8.0			QL=6 ST=2 TYP=3
	245	LEAR	8 S	0506.0	0506.3	1.8	23.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0506.0	0506.3	.3	11.0			QL=6 ST=2 TYP=3
	500	HIRA	8 S	0540.0	0540.1	.6	40.0			ML
	200	HIRA	8 S	0540.1	0540.4	.4	280.0			0
	610	LEAR	8 S	0540.1	0540.6	1.4	18.0			QL=6 ST=2 TYP=3
	245	LEAR	47 GB	0540.3	0540.5	1.2	119.0			QL=6 ST=2 TYP=5
	410	LEAR	47 GB	0540.3	0540.5	1.2	80.0			QL=6 ST=2 TYP=5
	200	HIRA	46 C	0557.0	0557.3	2.1	250.0	48.0		0
	100	GORK	4 S/F	0557.0	0557.5	1.2	150.00			
	200	GORK	4 S/F	0557.0	0557.7	1.5	5.0			
	100	HIRA	46 C	0557.1	0557.4	1.2	495.0	189.0		0
	245	LEAR	47 GB	0557.1	0557.5	3.0	200.0			QL=6 ST=2 TYP=5
	650	GORK	1 S	0557.2	0557.4	.6	2.0			
	410	LEAR	8 S	0557.3	0557.3	1.2	22.0			QL=6 ST=2 TYP=3
	113	POTS	4 S/F	0557.3	0557.5	1.0	100.0	15.0		
	8800	LEAR	8 S	0655.6	0656.0	.7	11.0			QL=6 ST=2 TYP=3
	650	GORK	4 S/F	0701.7	0702.6	1.7	8.0	2.0		
	950	GORK	4 S/F	0701.9	0702.3	1.5	63.0			
	950	GORK	3 S	0739.8	0740.2	.5	26.0			
	9395	PEKG	45 C	0832.0	0834.1	7.0	13.5	4.4		
	2840	PEKG	45 C	0835.0	0835.9	2.0	25.3	7.1		
	204	IZMI	42 SER	1019.5	1020.2	22.0	190.0			
	113	POTS	4 S/F	1020.5	1021.0	.8	100.0	10.0		
234	POTS	4 S/F	1020.7	1020.8	.3	275.0	40.0			
430	KRAK	8 S	1242.5	1242.8	.8	125.0				
113	POTS	4 S/F	1243.1	1243.2	.2	100.0	25.0			
536	ONDR	45 C	1258.2	1259.4	7.0	11.0				
234	POTS	4 S/F	1301.6	1301.8	.3	130.0	30.0			
234	POTS	4 S/F	1410.4	1410.5	.9	140.0	5.0			
2800	OTTA	4 S/F	1638.8	1639.7	2.2	23.0	9.0			
2800	OTTA	29 PBI	1641.0	1641.0	15.0	4.0	1.8			
2800	OTTA	1 S	1904.5	1905.0	1.0	2.8	1.4			
245	LEAR	47 GB	2358.1	2358.3	3.5	61.0			QL=6 ST=3 TYP=5	
100	HIRA	46 C	2358.2	2358.6	1.0	205.0	60.0			
410	LEAR	4 S/F	2358.5	2359.8	3.1	17.0			QL=6 ST=3 TYP=3	
19	260	ONDR	43 NS	1326.0		53.0D	10.0			
	410	SGMR	43 NS	1531.5	1532.1		87.0			QL=6 ST=3 TYP=1
	610	SGMR	43 NS	1531.5	1532.6		180.0			QL=6 ST=3 TYP=1
	1415	SGMR	43 NS	1531.5	1533.3		76.0			QL=6 ST=3 TYP=1
	245	SGMR	43 NS	1531.5	1533.3		180.0			QL=6 ST=3 TYP=1
	245	PALE	43 NS	1644.0	1806.8		160.0			QL=6 ST=2 TYP=1
	245	LEAR	43 NS	2332.0	0836.6	681.0D	42.0			QL=6 ST=2 TYP=1
	200	HIRA	44 NS	2335.0E	0039.0	538.0D	10.0	5.0		R
	100	HIRA	44 NS	2335.0E	2350.0	238.0D	1100.0	325.0		SR
	245	LEAR	8 S	0816.1	0816.6	.7	18.0			QL=6 ST=2 TYP=3
	245	LEAR	8 S	0824.8	0824.8	.5	11.0			QL=6 ST=2 TYP=3

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SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

SEPTEMBER 1982

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 - 22)	Mean w/m 2 Hz		
19	260	ONDR	42	SER	1106.8	1110.4	3.9	11.0		
	810	KRAK	8	S	1214.0	1214.0	.1	12.0		
	430	KRAK	8	S	1217.9	1218.0	.2	15.0		
	2800	OTTA	21	GRF	1357.0	1610.0	460.0	37.0	18.5	
	1470	POTS	45	C	1400.0	1512.5	100.0D	420.0		
	3000	POTS	23	GRF	1410.0	1512.4	90.0D	63.0		
	930	BORD	28	PRE	1420.0	1443.0	40.0	104.0	13.0	
	9500	POTS	20	GRF	1425.0		75.0D			
	410	SGMR	47	GB	1437.8	1438.0	1.3	69.0		QL=6 ST=2 TYP=5
	610	SGMR	47	GB	1442.1	1442.1	17.7	31.0		QL=6 ST=2 TYP=5
	234	POTS	45	C	1443.0	1526.0	66.0	250.0		IV
	410	SGMR	8	S	1445.6	1446.1	1.0	16.0		QL=6 ST=2 TYP=3
	245	SGMR	4	S/F	1447.6	1447.6	6.2	19.0		QL=6 ST=2 TYP=3
	1415	SGMR	8	S	1450.1	1450.8	1.7	24.0		QL=6 ST=2 TYP=3
	113	POTS	49	GB	1455.0	1548.5	54.0	500.0		
	930	BORD			1500.0	1505.0		878.0		
	930	BORD	47	GB	1500.0	1512.0	30.0	2860.0	455.0	
	930	BORD			1500.0	1516.0		2145.0		
	930	BORD			1500.0	1520.0		2438.0		
	2695	ATHN	47	GB	1504.3	1512.5	22.0	130.0		QL=5 ST=2 TYP=5
	8800	SGMR	8	S	1506.3	1506.8	1.2	19.0		QL=6 ST=2 TYP=3
	2650	DWIN	41	F	1510.0	1512.0	15.0	210.0	20.0	
	2800	OTTA	40	F	1511.0	1512.7	13.0	144.0		
	4995	SGMR	8	S	1512.0	1512.5	1.1	17.0		
	1415	SGMR	49	GB	1512.1	1512.3	11.0	1199.0		QL=6 ST=2 TYP=3
	2695	SGMR	47	GB	1512.1	1512.5	11.0	139.0		QL=6 ST=2 TYP=6
	410	SGMR	47	GB	1512.1	1512.8	11.0	62.0		QL=6 ST=2 TYP=5
	610	SGMR	47	GB	1512.1	1513.8	11.0	119.0		QL=6 ST=2 TYP=5
	245	SGMR	47	GB	1512.1	1517.6	11.0	130.0		QL=6 ST=2 TYP=5
	9400	HUAN	20	GRF	1517.4	1605.3	166.1	14.6	6.6	
8800	SGMR	8	S	1520.5	1521.8	1.3D	18.0		QL=6 ST=2 TYP=3	
410	SGMR	47	GB	1523.1	1523.3	8.4	89.0		QL=6 ST=2 TYP=5	
1415	SGMR	47	GB	1523.1	1523.3	8.4	139.0		QL=6 ST=2 TYP=5	
4995	SGMR	4	S/F	1523.1	1523.3	8.4	19.0		QL=6 ST=2 TYP=3	
610	SGMR	47	GB	1523.1	1523.3	8.4	169.0		QL=6 ST=2 TYP=5	
2695	SGMR	47	GB	1523.1	1523.3	1.7	51.0		QL=6 ST=2 TYP=5	
8800	SGMR	8	S	1524.8	1525.1	1.2	19.0		QL=6 ST=2 TYP=5	
930	BORD	29	PBI	1530.0	1625.0	96.0	115.0	35.0		
208	VORO	3	S	2356.0	2357.0	2.0	200.0			
20	260	ONDR	44	NS	0650.0E		440.0D			
	127	TORN	44	NS	1040.0E		180.0D	5.0		V=0
	208	VORO	44	NS	2200.0E		300.0D	18.0		
	245	LEAR	43	NS	2231.0	2242.5	691.0D	92.0		QL=5 ST=2 TYP=1
	2000	TYKW	5	S	0239.0	0239.3	1.0	5.0	1.5	
	9400	TYKW	5	S	0239.0	0239.4	1.0	9.0	3.0	
	3750	TYKW	5	S	0239.0	0239.5	1.0	9.0	2.0	
	2840	PEKG	3	S	0239.0	0239.5	3.0	15.7	4.2	
	9395	PEKG	1	S	0239.0	0239.5	6.0	9.1	2.0	
	9400	TYKW	29	PBI	0240.0		6.0	2.0	1.0	
	3750	TYKW	5	S	0240.0	0242.0	6.0	1.5	.7	
	9395	PEKG	20	GRF	0623.0	0625.4	12.0	6.1	2.2	
	204	IZMI	41	F	0631.8	0633.0	1.2U	300.0		
	245	LEAR	47	GB	0827.6	0827.8	.2	130.0		QL=6 ST=2 TYP=5
	410	LEAR	8	S	0827.6	0827.8	.2	41.0		QL=6 ST=2 TYP=3
	2650	DWIN	3	S	0914.0	0916.0	2.0	175.0	80.0	
2650	DWIN	45	C	0954.0	0958.0	6.0	315.0	100.0		
2650	DWIN	41	F	1151.0	1153.0	28.0	110.0	30.0		
21	260	ONDR	43	NS	0912.0		294.0D			
	200	GORK	44	NS	1106.0E	1106.8	2.7D	35.0D		
	245	LEAR	43	NS	2230.0	0941.1	693.0D	72.0		QL=6 ST=2 TYP=1
	2695	PENT	3	S	0001.5	0001.9	1.0	12.0	3.0	
	245	PALE	47	GB	0043.3	0049.8	7.2	139.0		QL=1 ST=2 TYP=5
	500	HIRA	7	C	0049.3	0049.4	2.0	160.0	40.0	WL
	200	HIRA	46	C	0049.5	0049.7	.7	44.0	16.0	0
	3750	TYKW	5	S	0049.5	0050.0	1.5	1.5	.5	
	1000	TYKW	5	S	0049.5	0050.0	1.5	3.0	1.0	
	410	PALE	47	GB	0049.6	0049.8	1.2	91.0		QL=6 ST=2 TYP=5
	9400	TYKW			0055.5	0056.0		20.0		
9400	TYKW	45	C	0055.5	0057.9	3.5	28.0	5.0		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

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SEPTEMBER 1982

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 - 22 W/m ² Hz)	Mean		
21	3750	TYKW	5 S	0219.0	0219.3	1.0	3.0	1.0		
	410	LEAR	8 S	0219.0	0219.3	.8	8.0			QL=6 ST=2 TYP=3
	245	LEAR	8 S	0219.0	0219.5	.8	37.0			QL=6 ST=2 TYP=3
	245	PALE	8 S	0219.0	0219.5	1.0	43.0			QL=6 ST=2 TYP=3
	500	HIRA	7 C	0223.7	0224.1	1.0	35.0	15.0		WL
	410	LEAR	47 GB	0223.8	0223.8	1.8	210.0			QL=6 ST=2 TYP=5
	245	LEAR	47 GB	0223.8	0223.8	1.8	130.0			QL=6 ST=2 TYP=5
	410	PALE	47 GB	0223.8	0223.8	2.2	169.0			QL=6 ST=2 TYP=5
	245	PALE	47 GB	0223.8	0224.0	2.2	119.0			QL=6 ST=2 TYP=5
	410	LEAR	8 S	0225.6	0225.8	1.0	25.0			QL=6 ST=2 TYP=3
	245	LEAR	8 S	0225.8	0225.8	.3	37.0			QL=6 ST=2 TYP=3
	500	HIRA	8 S	0302.9	0303.1	.5	50.0			WL
	245	LEAR	8 S	0325.1	0325.1	.2	18.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0325.1	0325.1	.2	6.0			QL=6 ST=2 TYP=3
	3750	TYKW	21 GRF	0327.0	0450.0	170.0	4.0	2.0		
	3750	TYKW	5 S	0329.0	0330.0	3.0	2.0	.7		
	3750	TYKW	5 S	0334.0	0336.0	12.0	2.0	1.0		
	3750	TYKW	5 S	0422.0	0425.0	10.0	1.5	.5		
	2840	PEKG	20 GRF	0504.0	0528.5	27.0	8.7	3.0		
	9395	PEKG	20 GRF	0505.0	0527.3	25.0	7.0	2.4		
	245	LEAR	8 S	0647.0	0647.0	.8	20.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0647.0	0647.0	.8	6.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0651.1	0651.8	.9	10.0			QL=6 ST=2 TYP=3
	430	KRAK	8 S	0818.0	0818.2	.1	11.0			
	245	LEAR	8 S	0830.6	0830.6	.2	48.0			QL=6 ST=2 TYP=3
	610	LEAR	8 S	0830.6	0830.6	.2	5.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0830.6	0830.6	.2	5.0			QL=6 ST=2 TYP=3
	245	LEAR	8 S	0853.6	0853.6	2.0	26.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0853.6	0853.6	2.0	18.0			QL=6 ST=2 TYP=3
	610	LEAR	8 S	0853.6	0853.6	2.0	7.0			QL=6 ST=2 TYP=3
	410	LEAR	4 S/F	0916.3	0916.3	20.0	4.0			QL=6 ST=2 TYP=3
	245	LEAR	47 GB	0916.3	0916.3	.2	51.0			QL=6 ST=2 TYP=5
	610	LEAR	4 S/F	0916.3	0916.3	20.0	8.0			QL=6 ST=2 TYP=3
	430	KRAK	8 S	0938.2	0938.4	.2	300.0			
	245	LEAR	47 GB	0939.8	0939.8	2.0	53.0			QL=5 ST=2 TYP=5
410	LEAR	4 S/F	0939.8	0939.8		10.0			QL=5 ST=2 TYP=3	
430	KRAK	42 SER	1105.7	1108.2	2.5	650.0D				
204	IZMI	41 F	1106.0	1107.0	2.5	240.0				
200	GORK		1106.0	1108.1		35.0D				
950	GORK	1 S	1106.4	1106.9	2.2	5.0				
650	GORK	46 C	1106.5	1106.6	2.1	20.0				
6100	KISV	1 S	1106.5	1106.7	.5	4.0				
650	GORK		1106.5	1107.6		19.0				
536	ONDR	41 F	1106.8	1108.1U	1.8	34.0				
810	KRAK	8 S	1107.0	1107.1	.2	15.0				
430	KRAK	8 S	1125.0	1125.0	.1	20.0				
810	KRAK	8 S	1125.9	1126.0	.1	11.0				
810	KRAK	8 S	1156.7	1156.7	.1	2.0				
430	KRAK	8 S	1156.7	1156.8	.2	15.0				
930	BORD	8 S	1159.5	1159.5	.1	22.0	1.0			
930	BORD	8 S	1244.8	1244.8	.1	28.0	1.0			
930	BORD	8 S	1423.3	1423.3	.1	14.0	1.0			
930	BORD	8 S	1433.2	1433.2	.2	31.0	2.0			
2800	OTTA	20 GRF	1535.0	1545.0	40.0	2.6	1.3			
2695	PENT	21 GRF	2205.0	2310.0	135.0	2.6	1.3			
1000	TYKW	20 GRF	2215.0	2234.0	55.0	4.0	2.0			
22	260	ONDR	44 NS	0657.0E		433.0D				
	245	LEAR	43 NS	2229.0	2312.3	491.1	200.0			QL=5 ST=2 TYP=1
	2000	TYKW	5 S	0001.5	0001.8	1.0	31.0	3.0		
	2695	LEAR	8 S	0001.6	0001.8	.5	10.0			QL=6 ST=2 TYP=3
	610	LEAR	8 S	0001.6	0001.8	.5	18.0			QL=6 ST=2 TYP=3
	1415	LEAR	8 S	0001.6	0001.8	.5	2.0			QL=6 ST=2 TYP=3
	1000	TYKW	5 S	0654.0	0654.8	2.0	205.0	5.0		
	610	LEAR	4 S/F	0859.1	0859.1	5.0	7.0			QL=6 ST=2 TYP=3
	410	LEAR	4 S/F	0859.1	0859.1	2000.0	4.0			QL=6 ST=2 TYP=3
	245	LEAR	47 GB	0859.1	0859.1	.2	52.0			QL=6 ST=2 TYP=5
	6100	KISV	45 C	0922.3	0923.5	4.0	47.0			
	6100	KISV		0922.3	0924.9		5.0			
200	GORK	2 S/F	0922.6	0923.0	2.8	19.0				
8800	ATHN	4 S/F	0923.0	0923.5	3.0	41.0			QL=6 ST=2 TYP=3	

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

SEPTEMBER 1982

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m ² Hz)	Mean		
22	2950	GORK	1 S	0923.0	0923.5	2.0	4.0			
	4995	ATHN	4 S/F	0923.0	0923.5	3.0	16.0			
	8800	LEAR	8 S	0923.1	0923.3	1.2	24.0			QL=6 ST=2 TYP=3
	4995	LEAR	8 S	0923.1	0923.3	1.2	11.0			QL=5 ST=2 TYP=3
	430	KRAK	8 S	1122.0	1122.1	.2	13.0			QL=5 ST=2 TYP=3
	2800	OTTA	20 GRF	1350.0	1500.0	140.0	5.6	3.0		
	930	BORD	8 S	1613.3	1613.3	.1	2.1	1.0		
	2800	OTTA	3 S	1821.0	1821.9	2.0	22.0	7.5		
	410	PALE	49 GB	1821.3	1821.6	1.5	1100.0			QL=6 ST=2 TYP=6
	410	SGMR	49 GB	1821.3	1821.6	1.5	900.0			QL=6 ST=2 TYP=6
	245	SGMR	47 GB	1821.5	1821.6	1.3	260.0			QL=6 ST=2 TYP=5
	4995	PALE	8 S	1821.6	1821.8	1.2	40.0			QL=6 ST=2 TYP=3
	245	PALE	49 GB	1821.6	1821.8	.5	640.0			QL=1 ST=2 TYP=6
	8800	SGMR	47 GB	1821.6	1821.8	1.2	68.0			QL=6 ST=2 TYP=5
	4995	SGMR	47 GB	1821.6	1821.8	1.4	50.0			QL=6 ST=2 TYP=5
	8800	PALE	47 GB	1821.6	1821.8	1.2	87.0			QL=6 ST=2 TYP=5
	15400	PALE	8 S	1821.6	1821.8	1.2	49.0			QL=6 ST=2 TYP=3
	1415	SGMR	8 S	1821.8	1821.8	1.3	40.0			QL=6 ST=2 TYP=3
	610	SGMR	8 S	1821.8	1821.8	1.0	48.0			QL=6 ST=2 TYP=3
	2695	PALE	8 S	1821.8	1822.0	1.0	22.0			QL=6 ST=2 TYP=3
	1415	PALE	8 S	1821.8	1822.0	1.5	29.0			QL=6 ST=2 TYP=3
	610	PALE	8 S	1821.8	1822.0	1.3	24.0			QL=6 ST=2 TYP=3
	410	PALE	47 GB	1823.3	1824.1	2.5	139.0			QL=6 ST=2 TYP=5
	410	SGMR	47 GB	1824.1	1824.1	1.0	90.0			QL=6 ST=2 TYP=5
	245	PALE	8 S	1951.8	1952.0	1.2	23.0			QL=6 ST=2 TYP=3
	410	PALE	47 GB	1951.8	1952.3	4.5	480.0			QL=6 ST=2 TYP=3
	2800	OTTA	40 F	1951.8	1956.0	6.0	2.8			QL=6 ST=3 TYP=5
	2695	PALE	47 GB	2057.6	2058.1	1.5	100.0			QL=6 ST=2 TYP=5
	410	SGMR	47 GB	2109.6	2110.0	1.9	80.0			QL=6 ST=2 TYP=5
	500	HIRA	7 C	2109.7	2110.6	1.3	1400.0	100.0		WL
	410	PALE	47 GB	2109.8	2111.0	1.5	169.0			QL=6 ST=2 TYP=5
	610	SGMR	8 S	2110.3	2110.8	1.0	24.0			QL=6 ST=2 TYP=3
	245	SGMR	8 S	2110.6	2111.0	.7	48.0			QL=6 ST=2 TYP=3
	245	PALE	47 GB	2111.0	2111.1	.3	66.0			QL=6 ST=2 TYP=5
500	HIRA	8 S	2310.5	2310.5	.5	150.0			WL	
245	LEAR	47 GB	2310.6	2311.0	1.2	55.0			QL=6 ST=2 TYP=5	
410	LEAR	49 GB	2310.6	2311.1	1.5	530.0			QL=6 ST=2 TYP=6	
410	PALE	47 GB	2310.6	2311.1	6.2	470.0			QL=6 ST=2 TYP=5	
245	PALE	47 GB	2310.8	2312.3	4.5	180.0			QL=6 ST=2 TYP=5	
410	LEAR	47 GB	2314.1	2314.6	.7	52.0			QL=6 ST=2 TYP=5	
245	LEAR	8 S	2314.1	2314.6	.9	21.0			QL=6 ST=2 TYP=3	
500	HIRA	7 C	2349.3	2349.5	.8	40.0	20.0		WL	
410	LEAR	47 GB	2349.6	2349.8	1.2	310.0			QL=6 ST=2 TYP=5	
610	LEAR	8 S	2349.8	2350.3	.7	48.0			QL=6 ST=2 TYP=3	
245	LEAR	47 GB	2350.8	2350.8	9.0	71.0			QL=6 ST=2 TYP=5	
245	LEAR	47 GB	2356.1	2356.3	1.2	100.0			QL=6 ST=2 TYP=5	
23	610	LEAR	8 S	0102.0	0102.0	.1	11.0			QL=6 ST=2 TYP=3
	3750	TYKW	5 S	0102.4	0102.7	1.0	1.0	.3		
	3750	TYKW	20 GRF	0346.0	0350.0	50.0	2.5	1.0		
	1000	TYKW	8 S	0517.7	0517.8	.3	60.0	10.0		
	430	KRAK	8 S	0735.5	0735.5	.1	21.0			
	430	KRAK	8 S	0810.2	0810.2	.1	10.0			
	2840	PEKG	3 S	0839.0	0841.3	12.0	24.4	11.5		
	260	ONDR	8 S	0844.7	0844.7	.1	4.0			
	2800	OTTA	20 GRF	1435.0	1600.0	165.0	2.8	1.6		
	2000	TYKW	20 GRF	2210.0	2216.0	40.0	2.0	1.0		
	3750	TYKW	20 GRF	2210.0	2222.0	90.0	2.0	1.0		RAIN
	1000	TYKW	20 GRF	2210.0	2230.0	50.0	2.0	1.0		
	410	LEAR	47 GB	2305.1	2306.1	6.7	65.0			QL=6 ST=2 TYP=5
	3750	TYKW	5 S	2310.4	2310.7	.6	2.0	.5		
410	LEAR	8 S	2327.5	2327.6	.1	4.0			QL=6 ST=2 TYP=3	
245	LEAR	47 GB	2327.5	2327.6	.1	95.0			QL=6 ST=2 TYP=5	
245	LEAR	47 GB	2345.8	2345.8	.2	75.0			QL=6 ST=2 TYP=5	
24	33	UPIC	43 NS	0835.2		385.3				
	29	UPIC	43 NS	0838.8	1036.4	383.7				
	245	LEAR	43 NS	2227.0	0012.3	697.00	45.0			QL=6 ST=2 TYP=1
	245	LEAR	47 GB	0000.5	0005.1	4.6	65.0			QL=6 ST=2 TYP=5
	245	LEAR	8 S	0124.1	0125.0	1.0	26.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0705.0	0705.5	.6	8.0			QL=6 ST=2 TYP=3

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

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Sep 82

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10-22 W/m ² Hz)	Mean		
24	430	KRAK	8 S	0705.2	0705.2	.2	20.0	.3		
	9395	PEKG	3 S	0719.0	0720.5	3.5	11.8	3.9		
	245	LEAR	8 S	0749.8	0749.8	.3	20.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	0755.5	0755.8	.5	16.0			QL=6 ST=2 TYP=3
	610	LEAR	8 S	0755.6	0755.8	.4	9.0			QL=6 ST=2 TYP=3
	430	KRAK	2 S/F	0755.6	0755.9	.5	35.0	6.0		
	9395	PEKG	3 S	0807.0	0807.2	2.0	11.6	4.9		
	2950	GORK	1 S	0819.0	0819.1	.5	2.6	1.3		
	650	GORK	1 S	0823.4	0823.7	.9	2.0			
	260	ONDR	4 S/F	0942.5	0942.5	.4	135.0			
	245	LEAR	47 GB	0952.3	0952.3	1.0	410.0			QL=1 ST=2 TYP=5
	234	POTS	4 S/F	0952.3	0952.4	.5	350.0	12.0		
	204	IZMI	41 F	0952.5	0952.8	1.0	190.0			
	930	BORD	8 S	1115.9	1115.9	.1	20.0	1.0		
	430	KRAK	8 S	1217.5	1217.5	.2	150.0			
	2800	OTTA	240 R	1230.0	1300.0	30.0	4.6	2.3		
	127	TORN	27 RF	1257.8	1259.3	2.8	40.0			
	2800	OTTA	22 GRF	1550.0	1812.0	180.0	3.6	2.2		
	2695	PALE	47 GB	1920.3	1920.6	1.8	62.0			QL=6 ST=2 TYP=5
	2800	OTTA	20 GRF	1950.0	2025.0	110.0	4.6	2.3		
245	LEAR	47 GB	2345.8	2345.8	.2	75.0			QL=6 ST=2 TYP=5	
25	260	ONDR	44 NS	0655.0E		441.0D				
	33	UPIC	43 NS	1008.0		382.0D				
	29	UPIC	43 NS	1008.2		381.8D				
	9395	PEKG	40 F	0256.0	0303.9	10.0	15.0	7.0		
	9395	PEKG	8 S	0306.4	0306.8	.6	80.0	18.0		
	9395	PEKG	8 S	0312.0	0312.7	1.0	64.0	13.1		
	9395	PEKG	40 F	0314.0	0316.2	5.0	55.0	6.4		
	810	KRAK	42 SER	0743.5	0743.5	1.0	48.0			
	430	KRAK	42 SER	0743.5	0743.5	1.0	190.0			
	810	KRAK	8 S	0902.8	0902.8	.1	8.0			
	430	KRAK	42 SER	1241.5	1242.5	4.5	30.0			
	2800	OTTA	240 R	1400.0	1710.0	190.0	4.0	2.0		
	26	260	ONDR	43 NS	0703.5		486.0D			
33		UPIC	43 NS	1048.6		341.4D				
29		UPIC	43 NS	1049.1		340.9D				
245		LEAR	43 NS	2225.0	0004.6	699.0D	41.0			QL=6 ST=2 TYP=1
245		PALE	43 NS	2225.8	2351.8		58.0			QL=6 ST=3 TYP=1
15400		LEAR	8 S	0000.6	0001.0	1.0	11.0			QL=5 ST=2 TYP=3
8800		LEAR	8 S	0000.6	0001.0	1.0	8.0			QL=5 ST=2 TYP=3
410		LEAR	4 S/F	0100.8	0101.0	.2D	8.0			QL=6 ST=2 TYP=3
245		LEAR	4 S/F	0100.8	0101.0	.2D	13.0			QL=6 ST=2 TYP=3
3750		TYKW	20 GRF	0330.0	0410.0	120.0	3.0	1.5		
2000		TYKW	20 GRF	0330.0	0410.0	120.0	2.0	1.0		
9395		PEKG	3 S	0454.5	0456.1	2.5	17.0	5.9		
610		LEAR	8 S	0515.5	0515.8	.6	17.0			QL=6 ST=2 TYP=3
410		LEAR	8 S	0515.6	0515.8	1.0	19.0			QL=6 ST=2 TYP=3
410		LEAR	8 S	0545.6	0545.8	1.2	8.0			QL=6 ST=3 TYP=3
410		LEAR	8 S	0545.8	0546.0	.7	3.0			QL=6 ST=2 TYP=3
245		LEAR	47 GB	0545.8	0546.0	1.2	119.0			QL=6 ST=2 TYP=5
610		LEAR	8 S	0545.8	0546.0	.7	3.0			QL=6 ST=3 TYP=3
610		LEAR	8 S	0710.3	0710.6	.7	6.0			QL=6 ST=2 TYP=3
245		LEAR	8 S	0710.3	0710.8	.7	35.0			QL=6 ST=2 TYP=3
410		LEAR	49 GB	0710.5	0710.6	1.1	530.0			QL=6 ST=2 TYP=6
410		LEAR	8 S	0813.3	0813.5	1.5	11.0			QL=6 ST=2 TYP=3
410		LEAR	8 S	0850.0	0850.1	.1	16.0			QL=6 ST=2 TYP=3
430		KRAK	8 S	0920.2	0920.3	.2	7.0			
430		KRAK	8 S	0939.0	0939.2	.5	100.0			
1470		POTS	20 GRF	1104.0	1106.0	4.0	1.4			
3000		POTS	3 S	1105.0	1105.8	2.5	14.0			
9500	POTS	20 GRF	1105.0	1106.0	10.0	8.0				
204	IZMI	5 S	1105.0	1106.0	2.8	14.0	7.0			
2800	OTTA	27A RF	1240.0		275.0	3.4	3.1			
2800	OTTA	24 R	1240.0	1310.0	30.0	3.4	1.7			
3000	POTS	4 S/F	1304.5	1306.0	3.5	25.0				
1470	POTS	4 S/F	1304.5	1306.2	3.0	150.0				
536	ONDR	4 S/F	1304.7	1306.3	3.7	46.0	22.0			
1415	ATHN	47 GB	1304.8	1305.8	2.8	200.0			QL=6 ST=3 TYP=5	
2800	OTTA	3 S	1305.0	1305.9	2.0	35.0	9.0			

SOLAR RADIO EMISSION
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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10-22 W/m ²)	Mean (2 Hz)		
26	930	BORD	46 C	1305.0	1305.8	2.0	143.0	9.0		
	430	KRAK	4 S/F	1305.0	1305.9	3.0	230.0	13.0		
	1415	SGMR	47 GB	1305.1	1305.6	2.2	340.0			QL=6 ST=2 TYP=5
	610	SGMR	47 GB	1305.5	1305.6	1.5	219.0			QL=6 ST=2 TYP=5
	2695	ATHN	8 S	1305.5	1305.8	1.3	36.0			QL=6 ST=2 TYP=3
	2695	SGMR	8 S	1305.6	1305.8	1.2	46.0			QL=6 ST=2 TYP=3
	808	ONDR	4 S/F	1305.6	1305.8	.8	88.0	60.0		
	410	SGMR	47 GB	1305.6	1305.8	1.0	56.0			QL=6 ST=2 TYP=5
	810	KRAK	8 S	1305.7	1305.9	.6	70.0			
	2800	OTTA	24P R	1310.0		220.0	3.4			
	234	POTS	8 S	1326.7	1326.7	.8	125.0	40.0		
	930	BORD	46 C	1620.0	1620.4	.6	25.0	5.0		
	2800	OTTA	26 FAL	1650.0	1715.0	25.0	-3.4	-1.7		
	2800	OTTA	20 GRF	1755.0	1846.0	90.0	2.6	1.3		
	2800	OTTA	20 GRF	1940.0	2140.0	160.0D	23.4			
	9400	HUAN	20 GRF	2111.6	2141.5	57.4	5.9	2.7	0	
	3750	TYKW	20 GRF	2120.0	2142.0	70.0	10.0	4.0		
	9400	TYKW	20 GRF	2120.0	2142.0	70.0	13.0	5.0		
	2000	TYKW	21 GRF	2120.0	2150.0	90.0	6.0	3.0		
	1000	TYKW	20 GRF	2130.0U	2200.0U	75.0U	2.0	1.0		
	2000	TYKW	45 C	2137.3	2138.4	1.5	5.0	2.0		
	2000	TYKW	45 C	2140.0	2140.4	5.0	10.0	2.5		
	245	LEAR	8 S	2249.0	2249.1	.3	22.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	2249.1	2249.3	.5	13.0			QL=6 ST=2 TYP=3
	3750	TYKW	28 PRE	2303.0	2313.0	10.0	1.5	.7		
	1000	TYKW	21 GRF	2305.0	2330.0	120.0	2.0	1.0		
	3750	TYKW	45 C	2313.0	2323.8	30.0	15.0	9.0		
	2000	TYKW	20 GRF	2313.0	2330.0	100.0	4.0	2.0		
	9400	TYKW	20 GRF	2313.0	2330.0	100.0	18.0	9.0		
	1000	TYKW	5 S	2318.0	2319.2	3.0	2.0	.7		
	17000	NOBE	20 GRF	2318.6	2328.8	45.0	12.0		0	
	2695	LEAR	4 S/F	2321.8	2322.3	5.3	29.0			QL=6 ST=2 TYP=3
	4995	LEAR	4 S/F	2321.8	2324.3	7.7	16.0			QL=6 ST=2 TYP=3
	8800	LEAR	4 S/F	2321.8	2324.3	7.7	10.0			QL=6 ST=2 TYP=3
1415	LEAR	8 S	2322.8	2323.5	2.0	6.0			QL=6 ST=2 TYP=3	
610	LEAR	4 S/F	2322.8	2324.3	6.0	4.0			QL=6 ST=2 TYP=3	
15400	LEAR	4 S/F	2325.1	2327.6	3.7	8.0			QL=6 ST=2 TYP=3	
500	HIRA	7 C	2327.0	2327.6	1.0	40.0	10.0		WL	
410	LEAR	4 S/F	2328.1	2328.8	2.5	11.0			QL=6 ST=2 TYP=3	
3750	TYKW	30 PBI	2343.0		75.0	9.0	3.5			
500	HIRA	7 C	2354.3	2354.6	1.0	30.0	6.0		0	
410	LEAR	47 GB	2354.6	2354.6	1.2	89.0			QL=6 ST=2 TYP=5	
410	PALE	47 GB	2354.6	2354.6	1.2	91.0			QL=6 ST=2 TYP=5	
410	LEAR	8 S	2356.0	2356.1	.1	17.0			QL=6 ST=2 TYP=3	
27	410	LEAR	43 NS	0001.0	0524.6	603.0D	67.0			QL=6 ST=2 TYP=1
	260	ONDR	44 NS	0700.0E	1130.0U	488.0D	27.0			
	245	PALE	43 NS	2022.1	2216.8	452.9D	160.0			QL=6 ST=2 TYP=1
	410	PALE	43 NS	2046.1	2106.8	428.9D	169.0			QL=6 ST=2 TYP=1
	208	VORO	44 NS	2200.0E		300.0D		9.0		
	200	HIRA	43 NS	2214.0	0456.0	730.0	50.0	10.0		ML
	245	LEAR	43 NS	2224.0	0634.3	700.0D	210.0			QL=6 ST=2 TYP=1
	410	LEAR	43 NS	2224.0	0815.0	700.0D	24.0			QL=6 ST=2 TYP=1
	3750	TYKW	5 S	0023.5	0024.1	2.0	2.0	1.0		
	245	PALE	8 S	0129.6	0130.1	1.4	40.0			QL=6 ST=2 TYP=3
	410	PALE	8 S	0129.8	0130.5	1.0	11.0			QL=6 ST=2 TYP=3
	3750	TYKW	5 S	0141.5	0142.1	2.5	3.0	-1.0		
	2000	TYKW	5 S	0141.5	0142.3	2.5	3.0	1.0		
	245	LEAR	49 GB	0141.8	0142.3	1.5	660.0			QL=6 ST=2 TYP=6
	1000	TYKW	5 S	0142.0	0142.4	2.0	1.5	.5		
	3750	TYKW	20 GRF	0200.0	0220.0	90.0	3.0	1.5		
	2000	TYKW	20 GRF	0210.0	0240.0	80.0	2.0	1.0		
	9395	PEKG	8 S	0216.0	0216.5	1.5	150.0	31.8		
	2000	TYKW	21 GRF	0303.0	0424.0	120.0	7.0	3.0		
	1000	TYKW	8 S	0323.8	0323.9	.2	57.0	15.0		
	1000	TYKW	45 C	0333.0	0334.6	4.0	6.0	1.0		
500	HIRA	7 C	0337.3	0337.3	1.5	250.0	60.0		WR	
410	LEAR	49 GB	0337.5	0337.6	1.1	1100.0			QL=6 ST=2 TYP=6	
610	LEAR	8 S	0337.5	0337.6	1.1	50.0			QL=6 ST=2 TYP=3	
3750	TYKW	21 GRF	0404.0	0424.0	130.0	13.0	6.0			
1000	TYKW	45 C	0405.0	0406.7	10.0	9.0	1.5			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean		
27	3750	TYKW	45 C	0405.0	0408.0	10.0	5.0	1.5		
	9400	TYKW	20 GRF	0405.0	0425.0	140.0	12.0	6.0		
	2000	TYKW	5 S	0406.0	0406.7	2.0	7.0	1.5		
	1415	LEAR	4 S/F	0406.3	0406.6	3.0	40.0			QL=6 ST=2 TYP=3
	8800	LEAR	4 S/F	0406.6	0408.3	4.0	11.0			QL=6 ST=2 TYP=3
	2695	LEAR	8 S	0407.1	0408.0	1.0	5.0			QL=6 ST=2 TYP=3
	4995	LEAR	4 S/F	0407.1	0408.1	3.5	8.0			QL=6 ST=2 TYP=3
	9100	GORK	20 GRF	0412.0E		105.0D				
	2950	GORK	22 GRF	0415.0E	0417.2	45.0D	6.5			
	650	GORK	20 GRF	0518.9	0601.5	401.0D	4.0			
	410	LEAR	47 GB	0656.1	0656.6	1.7	200.0			QL=6 ST=2 TYP=5
	500	HIRA	7 C	0656.3	0656.5	1.3	300.0	70.0		WR
	610	LEAR	4 S/F	0656.5	0657.1	3.3	20.0			QL=6 ST=2 TYP=3
	430	KRAK	42 SER	0800.7	0803.5	2.8	160.0			
	930	BORD	8 S	0822.9	0823.1	.3	48.0	2.0		
	430	KRAK	8 S	0910.0	0910.0	.2	28.0			
	204	IZMI	41 F	1008.2	1009.9	2.2	125.0			
	430	KRAK	42 SER	1017.8	1019.0	17.5	130.0			
	2950	GORK	20 GRF	1106.0	1133.0	49.5	6.4	3.2		
	430	KRAK	42 SER	1109.8	1110.0	5.5	17.0			
	430	KRAK	42 SER	1141.5	1158.0	31.0	60.0			
	430	KRAK	8 S	1308.8	1308.8	.2	7.0			
	430	KRAK	42 SER	1326.8	1327.0	1.0	9.0			
	29	UPIC	42 SER	1404.8	1520.6	81.3				
	33	UPIC	42 SER	1437.6	1459.2U	48.6				
	2800	OTTA	1 S	1530.0	1531.5	10.0	3.0	1.5		
	9400	HUAN	21 GRF	1607.3	1616.8	19.9	1.9	1.5		0
	2800	OTTA	40 F	1614.0	1618.0	6.0	11.2			
	610	SGMR	4 S/F	1614.0	1614.8	2.5	32.0			QL=6 ST=2 TYP=3
	245	SGMR	47 GB	1614.1	1614.1	1.7	219.0			QL=6 ST=2 TYP=5
	410	SGMR	49 GB	1614.1	1614.3	1.7	540.0			QL=6 ST=2 TYP=6
	930	BORD	41 F	1614.5	1615.6	2.6	24.0	2.0		
	9400	HUAN	1 S	1617.2	1618.2	2.5	11.3	6.9		0
	4995	SGMR	4 S/F	1617.3	1618.1	2.7	40.0			QL=6 ST=2 TYP=3
	410	SGMR	47 GB	1617.5	1617.6	1.6	139.0			QL=6 ST=2 TYP=5
	8800	SGMR	8 S	1617.8	1618.1	2.0	20.0			QL=6 ST=2 TYP=3
	610	SGMR	8 S	1618.0	1618.1	1.1	22.0			QL=6 ST=2 TYP=3
	2695	SGMR	8 S	1618.0	1618.1	1.3	23.0			QL=6 ST=2 TYP=3
	9400	HUAN	20 GRF	1750.5	1803.5	33.9	5.0	2.6		0
	2800	OTTA	20 GRF	1945.0	1957.0	40.0	3.0	1.5		
1000	TYKW	5 S	2217.0	2217.2	.5	7.0	2.0			
245	LEAR	47 GB	2233.3	2233.5	.3	119.0			QL=6 ST=2 TYP=5	
410	LEAR	8 S	2233.3	2233.5	.3	16.0			QL=6 ST=2 TYP=3	
9400	TYKW	20 GRF	2330.0	2334.0	50.0	5.0	2.0			
3750	TYKW	20 GRF	2331.0	2334.0	65.0	3.0	1.5			
2840	PEKG	20 GRF	2332.0	2340.5	18.0	3.4	1.5			
610	LEAR	4 S/F	2332.6	2332.8	2.2	11.0			QL=6 ST=2 TYP=3	
1000	TYKW	45 C	2333.0	2333.7	3.0	9.0	2.0			
1000	TYKW	5 S	2340.5	2340.7	1.0	4.0	1.0			
28	100	GORK	44 NS	0418.0E		462.0D		10.0		
	200	GORK	44 NS	0422.0E		458.0D		25.0		
	204	IZMI	44 NS	0600.0E		360.0D	96.0			
	127	TORN	43 NS	0632.0	1022.3	389.0	640.0	12.0		V=2
	260	ONDR	44 NS	0655.0E		375.0D				
	245	SGMR	43 NS	1058.0	1344.0	672.0D	110.0			QL=6 ST=2 TYP=1
	208	VORO	44 NS	2200.0E		300.0D		15.0		
	9395	PEKG	45 C	0052.0	0055.8	9.0	18.0	5.4		
	3750	TYKW	5 S	0237.0	0239.5	7.0	3.0	1.0		
	610	LEAR	47 GB	0306.8	0307.0	3.0	43.0			QL=6 ST=2 TYP=5
	3750	TYKW	5 S	0307.0	0309.4	7.0	3.0	1.0		
	2000	TYKW	5 S	0308.0	0309.1	5.0	3.0	1.0		
	610	PALE	47 GB	0308.6	0308.8	1.2	110.0			QL=6 ST=2 TYP=5
	2695	PALE	8 S	0308.8	0309.0	1.2	19.0			QL=6 ST=2 TYP=3
	3750	TYKW	5 S	0340.0	0340.6	2.0	2.0	.7		
	9400	TYKW	20 GRF	0340.0	0349.0	30.0	3.0	1.5		
	3750	TYKW	20 GRF	0405.0	0502.0	70.0	4.0	2.0		
	610	LEAR	8 S	0434.8	0435.0	1.2	43.0			QL=6 ST=2 TYP=3
	650	GORK	23 GRF	0441.6	0841.0	440.0D	9.0			
	2000	TYKW	5 S	0442.0	0442.3	1.0	5.0	1.5		
2695	LEAR	8 S	0442.1	0442.1	.2	22.0			QL=6 ST=2 TYP=3	

SOLAR RADIO EMISSION
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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
28	2000	TYKW	20 GRF	0505.0	0527.0	115.0	3.0	1.5		
	234	POTS	42 SER	0656.5	0657.1	6.3	275.0	5.0	III	
	29	UPIC	3 S	0657.0	0657.1	.4				
	33	UPIC	3 S	0657.0	0657.1	.4				
	2840	PEKG	3 S	0813.0	0816.4	4.0	10.4	5.6		
	810	KRAK	8 S	0816.0	0816.0	.4	46.0			
	2950	GORK	1 S	0816.0	0816.2	1.4	9.2	4.6		
	6100	KISV	1 S	0816.0	0816.3	.5	5.0			
	3000	POTS	3 S	0816.0	0816.4	.6	10.0			
	1470	POTS	1 S	0816.0	0816.4	.6	4.0			
	536	ONDR	41 F	0821.0	0828.5	34.8	8.0			
	113	POTS	4 S/F	0843.8	0844.5	1.5	100.0	20.0	III	
	234	POTS	4 S/F	0843.9	0844.5	1.3	700.0	35.0	III	
	100	GORK	46 C	0844.0	0844.4	1.2	90.0			
	100	GORK		0844.0	0844.8		90.0			
	29	UPIC	46 C	0844.0	0845.0	1.9				
	245	LEAR	49 GB	0844.1	0844.5	2.7	700.0			QL=6 ST=2 TYP=6
	33	UPIC	45 C	0844.1	0845.0	1.9				
	410	LEAR	8 S	0844.3	0844.3	1.0	41.0			QL=6 ST=2 TYP=3
	2950	GORK	20 GRF	0856.2	0912.0	185.0D	5.3			
	9100	GORK	22 GRF	0900.0U	1141.3	180.0U	19.0			
	6100	KISV	21 GRF	0905.0	0919.3	40.0	4.0			
	536	ONDR	41 F	0957.8	0957.9	42.0	11.0			
	234	POTS	4 S/F	1000.0	1000.1	.7	135.0	5.0		
	810	KRAK	8 S	1039.0	1039.1	.2	13.0			
	810	KRAK	8 S	1108.8	1108.8	.1	27.0			
	9500	POTS	20 GRF	1112.0	1131.0	68.0	13.0			
	1470	POTS	22 GRF	1113.0	1130.0	77.0	9.0			
	3000	POTS	20 GRF	1113.0	1131.0	39.0	10.0			
	536	ONDR	4 S/F	1128.0	1131.8	6.3	6.0	3.0		
	808	ONDR	4 S/F	1128.2	1132.0U	5.8	40.0	28.0		
	650	GORK	46 C	1129.1	1130.2	7.5	7.5			
	650	GORK		1129.1	1131.1		9.0			
	650	GORK		1129.1	1132.6		8.0			
	950	GORK	46 C	1129.3	1130.3	7.0	23.0			
	810	KRAK	7 C	1129.5	1132.0	4.3	37.0	10.0		
	930	BORD	46 C	1129.7	1130.8	3.3	55.0	6.0		
	950	GORK		1130.8			26.0			
	950	GORK		1132.0			25.0			
	2800	OTTA	20 GRF	1235.0	1255.0	170.0	7.4	3.8		
	33	UPIC	42 SER	1241.7	1250.1	9.2				
	29	UPIC	42 SER	1241.9	1250.2	9.0				
	930	BORD	8 S	1257.3	1257.3	.1	36.0	1.0		
	2800	OTTA	240 R	1805.0	1830.0	25.0	2.0	1.0		
	410	PALE	4 S/F	2059.8	2103.8	4.5	76.0			QL=6 ST=2 TYP=3
610	PALE	8 S	2103.3	2103.6	1.0	40.0			QL=6 ST=2 TYP=3	
410	PALE	8 S	2253.3	2253.3	1.0	23.0			QL=6 ST=2 TYP=3	
245	LEAR	47 GB	2257.1	2257.1	.9	55.0			QL=6 ST=2 TYP=5	
500	HIRA	42 SER	2324.4	2327.4	6.0	20.0			SL	
9400	TYKW	5 S	2330.5	2331.2	2.0	102.0	22.0			
2000	TYKW	45 C	2330.5	2331.2	2.0	92.0	20.0			
1000	TYKW	5 S	2330.5	2331.3	2.0	20.0	4.0			
8800	LEAR	47 GB	2330.8	2331.1	2.2	110.0			QL=6 ST=2 TYP=5	
8800	PALE	47 GB	2330.8	2331.1	2.0	119.0			QL=6 ST=2 TYP=5	
1415	PALE	47 GB	2330.8	2331.1	2.0	380.0			QL=6 ST=2 TYP=5	
2695	PENT	4 S/F	2330.8	2331.2	2.0	112.0	38.0			
3750	TYKW	45 C	2330.8	2331.4	1.7	157.0	30.0			
15400	LEAR	47 GB	2331.0	2331.1	1.8	110.0			QL=6 ST=2 TYP=5	
4995	LEAR	47 GB	2331.0	2331.1	1.6	74.0			QL=6 ST=2 TYP=5	
15400	PALE	47 GB	2331.0	2331.1	1.6	139.0			QL=6 ST=2 TYP=5	
4995	PALE	47 GB	2331.0	2331.1	1.5	66.0			QL=6 ST=2 TYP=5	
1415	LEAR	47 GB	2331.0	2331.1	1.8	320.0			QL=6 ST=2 TYP=5	
2695	LEAR	47 GB	2331.0	2331.3	2.0	110.0			QL=6 ST=2 TYP=5	
2695	PALE	47 GB	2331.0	2331.3	1.6	98.0			QL=6 ST=2 TYP=5	
9400	TYKW	29 PBI	2332.5		9.0	4.0	2.0			
3750	TYKW	29 PBI	2332.5		10.0	2.0	1.0			
2000	TYKW	29 PBI	2332.5		10.0	2.0	1.0			
29	245	LEAR	43 NS	0030.0	0833.6	575.0	200.0			QL=6 ST=2 TYP=1
	200	HIRA	43 NS	0248.0	0750.0	320.0D	20.0	5.0		WL
	410	LEAR	43 NS	0528.6	0829.8	276.4	49.0			QL=6 ST=2 TYP=1

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

SEPTEMBER 1982

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10-22 W/m ² Hz)	Flux Density Mean (W/m ² Hz)	Int	Remarks
29	204	IZMI	43 NS	0600.0		360.0	128.0			
	260	ONDR	44 NS	0659.0E	1027.0U	452.0D	84.0U			
	127	TORN	43 NS	0746.0	1050.4	374.0	100.0	11.0		V=1
	430	KRAK	43 NS	0807.5	0818.5	98.0D	50.0	48.0		
	245	SGMR	43 NS	1059.0	1224.3	670.0	160.0			QL=6 ST=2 TYP=1
	410	SGMR	43 NS	1059.0	1540.8	670.0	73.0			QL=6 ST=2 TYP=1
	245	PALE	43 NS	1715.0	0341.8	640.0D	50.0			QL=6 ST=2 TYP=1
	200	HIRA	44 NS	2030.0E	2239.0	270.0D	15.0	5.0		WL
	208	VORO	44 NS	2200.0E		300.0D		10.0		
	245	LEAR	43 NS	2224.0	0454.5	701.0D	290.0			QL=6 ST=2 TYP=1
	2000	TYKW	5 S	0016.0	0016.2	.5	5.0	1.0		
	1000	TYKW	5 S	0016.0	0016.2	.6	15.0	3.0		
	500	HIRA	8 S	0048.4	0048.7	.5	17.0			0
	2000	TYKW	5 S	0048.5	0048.8	1.5	12.0	2.0		
	1000	TYKW	5 S	0048.5	0049.1	1.0	6.0	2.0		
	610	LEAR	4 S/F	0048.6	0050.8	3.4	30.0			QL=6 ST=2 TYP=3
	410	PALE	4 S/F	0048.8	0049.1	2.3	26.0			QL=6 ST=2 TYP=3
	410	LEAR	4 S/F	0049.0	0049.1	2.6	30.0			QL=6 ST=2 TYP=3
	500	HIRA	8 S	0050.4	0050.4	.5	18.0			0
	1000	TYKW	5 S	0050.5	0050.9	1.5	17.0	3.0		
	1415	LEAR	8 S	0050.6	0050.8	1.0	19.0			QL=6 ST=2 TYP=3
	500	HIRA	8 S	0135.1	0135.1	.5	80.0			WR
	610	LEAR	8 S	0135.1	0135.3	.9	40.0			QL=6 ST=2 TYP=3
	245	PALE	47 GB	0155.3	0155.5	1.0	50.0			QL=6 ST=2 TYP=5
	2000	TYKW	21 GRF	0205.0	0252.0	105.0	3.0	1.5		
	9395	PEKG	45 C	0210.0	0210.5	4.0	56.7	25.0		
	8800	LEAR	47 GB	0219.6	0220.3	2.2	50.0			QL=6 ST=2 TYP=5
	1000	TYKW	21 GRF	0220.0	0255.0	100.0	2.0	1.0		
	15400	LEAR	8 S	0220.3	0220.3	1.0	29.0			QL=6 ST=2 TYP=3
	8800	PALE	47 GB	0220.3	0220.3	1.5	52.0			QL=6 ST=2 TYP=5
	17000	NOBE	1 S	0220.3	0220.5	.5	20.0			R
	1000	TYKW	45 C	0223.0	0226.5	10.0	4.0	1.0		
	2000	TYKW	45 C	0225.0	0226.2	2.0	4.0	1.0		
	9400	TYKW	20 GRF	0225.0	0310.0	95.0	4.0	2.0		
	1000	TYKW	5 S	0242.0	0243.2	2.5	2.0	.5		
	3750	TYKW	5 S	0242.0	0243.2	3.0	3.0	1.0		
	2000	TYKW	45 C	0242.0	0243.3	7.0	3.0	1.0		
	245	PALE	47 GB	0338.3	0338.6	1.3	100.0			QL=6 ST=2 TYP=5
	3750	TYKW	20 GRF	0420.0	0437.0	50.0	2.0	1.0		
	245	LEAR	8 S	0434.8	0435.1	1.3	19.0			QL=6 ST=2 TYP=3
	950	GORK	23 GRF	0435.3	0442.0	398.0	16.0			
	6100	KISV	29 PBI	0524.0	0524.0	22.0	4.0			
	650	GORK	23 GRF	0746.4	0841.5	253.0D	16.0			
	3000	POTS	23 GRF	0755.0	0819.5	65.0	39.0			
	536	ONDR	40 F	0755.0	0841.8	242.0	10.0U			
	930	BORD	8 S	0756.0	0756.2	.4	44.0	2.0		
	430	KRAK	42 SER	0756.0	0758.0	2.2	130.0			
	2840	PEKG	28 PRE	0756.0	0758.5	10.0	8.3	2.8		
	1470	POTS	23 GRF	0756.0	0819.0	64.0	16.0			
	410	LEAR	47 GB	0757.1	0757.3	1.5	71.0			QL=5 ST=2 TYP=5
610	LEAR	47 GB	0757.1	0757.6	1.5	68.0			QL=5 ST=2 TYP=5	
6100	KISV	28 PRE	0757.1	0758.3	7.0	4.0				
2950	GORK	1 S	0758.2	0758.3	.3	3.3	1.5			
2950	GORK	23 GRF	0803.2	0812.0	32.8	14.6				
3100	CRIM	3 S	0804.0	0819.0	38.0	24.0D				
6100	KISV	45 C	0804.4	0810.6	21.5	25.0				
6100	KISV		0804.4	0819.5		24.0				
8400	BERN	45 C	0805.7	0810.3	20.0	31.0				
5200	BERN	45 C	0805.7	0810.5	20.0	37.0				
3100	BERN	45 C	0805.7	0819.5	20.0	33.0				
9500	POTS	23 GRF	0806.0	0819.5	64.0	20.0				
2840	PEKG	45 C	0806.0	0819.6	29.0	31.0	19.0			
9395	PEKG	45 C	0806.0	0820.5	22.0	14.0	1.8			
9100	GORK	21 GRF	0806.0	0821.0	37.6	11.0				
1415	LEAR	4 S/F	0807.0	0818.8	14.3	28.0			QL=6 ST=2 TYP=3	
2695	LEAR	4 S/F	0807.5	0810.1	17.1	27.0			QL=6 ST=2 TYP=3	
430	KRAK		0807.5	0841.2		120.0				
4995	LEAR	4 S/F	0807.6	0810.5	15.5	37.0			QL=6 ST=2 TYP=3	
650	GORK	46 C	0807.7	0808.1	3.0	5.0				
650	GORK		0807.7	0809.0		8.0				
650	GORK		0807.7	0810.4		6.0				

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

SEPTEMBER 1982

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean (2 Hz)	Int	Remarks
29	950	GORK	2 S/F	0807.8	0810.2	3.2	6.0			
	610	LEAR	4 S/F	0807.8	0818.6	14.3	36.0			QL=6 ST=2 TYP=3
	8800	LEAR	4 S/F	0808.5	0810.5	16.1	29.0			QL=6 ST=2 TYP=3
	810	KRAK	1 S	0809.5	0810.0	1.0	9.0	4.0		
	2695	ATHN	4 S/F	0809.6	0810.8	4.4	11.0			QL=6 ST=2 TYP=3
	2950	GORK	1 S	0809.8	0810.5	1.1	8.0	4.0		
	1415	ATHN	8 S	0809.8	0810.8	1.3	2.0			QL=6 ST=2 TYP=3
	9100	GORK	1 S	0809.9	0810.3	1.0	20.0	10.0		
	4995	ATHN	4 S/F	0810.0	0810.8	4.0	9.0			QL=6 ST=2 TYP=3
	2650	DWIN	2 S/F	0810.0	0820.0	15.0	20.0	10.0		
	245	LEAR	47 GB	0813.5	0815.1	11.1	119.0			QL=6 ST=2 TYP=5
	950	GORK	46 C	0813.7	0816.0	5.7	9.0			
	950	GORK		0813.7	0819.0		12.0			
	410	LEAR	4 S/F	0814.8	0816.6	9.8	20.0			QL=6 ST=2 TYP=3
	930	BORD	46 C	0815.0	0818.5	7.0	65.0	5.0		
	810	KRAK	1 S	0815.7	0816.0	1.8	9.0	4.0		
	650	GORK	4 S/F	0815.8	0818.9	6.2	16.0			
	810	KRAK	2 S/F	0817.5	0818.5	3.5	23.0	8.0		
	2950	GORK	3 S	0817.9	0819.6	3.8	21.0	10.0		
	9100	GORK	1 S	0819.1	0819.6	1.4	13.0	6.0		
	410	LEAR	47 GB	0835.3	0837.1	9.2	52.0			QL=6 ST=2 TYP=5
	245	LEAR	47 GB	0835.3	0837.6	9.2	100.0			QL=6 ST=2 TYP=5
	610	LEAR	20 GRF	0835.3	0839.0	9.2	19.0			QL=6 ST=2 TYP=2
	6100	KISV	8 S	0859.9	0900.3	.8	10.0			
	9100	GORK	1 S	0900.0	0900.3	.7	17.0	8.0		
	9100	GORK	22 GRF	0931.6	1154.1	144.00	1.0			
	2950	GORK	21 GRF	0936.0	1000.0	63.0	6.1	3.0		
	6100	KISV	28 PRE	1004.8	1010.6	9.0	4.0			
	6100	KISV	4 S/F	1013.9	1014.7	3.0	12.0			
	2950	GORK	1 S	1014.5	1014.8	.8	4.0	2.0		
	430	KRAK	42 SER	1102.5E	1106.0	37.00	90.0			
	6100	KISV	4 S/F	1129.1	1131.1	5.0	12.0			
	6100	KISV	23 GRF	1142.5	1154.3	26.0	9.0			
	9500	POTS	20 GRF	1147.0	1154.0	23.0	7.0			
	1470	POTS	21 GRF	1147.0	1154.5	12.0	7.0			
	3000	POTS	21 GRF	1148.0	1150.5	18.0	10.0			
	2950	GORK	22 GRF	1149.0	1154.4	7.8	9.6			
	650	GORK	46 C	1152.1	1152.9	2.9	10.0			
	650	GORK		1152.1	1154.0		20.0			
	930	BORD	46 C	1152.3	1154.0	2.7	56.0	4.0		
	950	GORK	4 S/F	1152.5	1154.0	4.0	36.0			
	810	KRAK	7 C	1152.7	1154.3	3.0	62.0	9.0		
	410	SGMR	8 S	1153.5	1153.8	1.3	23.0			QL=6 ST=2 TYP=3
	245	SGMR	8 S	1153.6	1153.8	1.2	110.0			QL=6 ST=2 TYP=3
	610	SGMR	8 S	1153.6	1154.1	1.7	46.0			QL=6 ST=2 TYP=3
	808	ONDR	2 S/F	1153.7	1153.9	2.0	39.0	35.0		
	430	KRAK	7 C	1154.0	1154.2	1.5	36.0	12.0		
	430	KRAK	27 RF	1159.0	1208.0	37.5	36.0	11.0		
	430	KRAK		1159.0	1229.5		21.0			
	6100	KISV	20 GRF	1223.0	1225.0	9.0	5.0			
2800	OTTA	21 GRF	1330.0	1345.0	35.0	3.8	1.9			
2800	OTTA	1 S	1342.0	1342.3	1.0	4.0	2.0			
610	SGMR	8 S	1517.1	1517.6	1.5	38.0			QL=6 ST=2 TYP=3	
930	BORD	46 C	1518.0	1523.5	15.0	85.0	9.0			
9400	HUAN	21 GRF	1518.3	1531.8	49.1	19.8	5.4		L	
2800	OTTA	28 PRE	1518.5	1521.0	3.5	7.8				
2800	OTTA	45 C	1522.0	1527.8	11.0	125.0	51.0			
5200	BERN	45 C	1522.4	1527.5U	17.0	183.0U				
3100	BERN	4 S/F	1522.4	1527.5U	17.0	119.0U				
8400	BERN	45 C	1522.4	1527.8	17.0	133.0				
19600	BERN	45 C	1522.4	1527.8	17.0	42.0				
11800	BERN	45 C	1522.4	1527.8	17.0	93.0				
9400	HUAN	45 C	1522.7	1523.8	8.6	74.8	47.9		L	
9400	HUAN		1522.7	1527.8		86.1			L	
2650	DWIN	45 C	1523.0	1528.0	8.0	90.0	40.0			
4995	ATHN	47 GB	1523.1	1524.3	11.5	110.0			QL=6 ST=2 TYP=5	
2695	ATHN	4 S/F	1523.1	1524.3	16.0	49.0			QL=6 ST=2 TYP=3	
1415	ATHN	47 GB	1523.1	1524.6	16.0	64.0			QL=6 ST=2 TYP=5	
8800	ATHN	47 GB	1523.5	1524.3	10.6	79.0			QL=6 ST=2 TYP=5	
2800	OTTA	30 PBI	1533.0	1533.0	40.0	11.8	5.9			
2800	OTTA	40 F	1539.0	1547.0	11.0	7.0				

S O L A R R A D I O E M I S S I O N
O U T S T A N D I N G O C C U R R E N C E S

SEPTEMBER 1982

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean (10 ⁻²² W/m ² Hz)	Int	Remarks	
29	245	SGMR	47 GB	1542.3	1543.0	12.0	139.0			QL=6 ST=2 TYP=5	
	610	SGMR	20 GRF	1542.3	1543.8	12.0	50.0			QL=6 ST=2 TYP=2	
	410	SGMR	47 GB	1542.3	1544.8	12.0	84.0			QL=6 ST=2 TYP=5	
	245	SGMR	47 GB	1554.3	1554.3	9.3	119.0			QL=6 ST=2 TYP=5	
	610	SGMR	20 GRF	1554.3	1554.3	3.2	27.0			QL=6 ST=2 TYP=2	
	410	SGMR	47 GB	1554.3	1554.3	9.3	110.0			QL=6 ST=2 TYP=5	
	245	SGMR	4 S/F	1603.6	1603.6	13.0	360.0			QL=6 ST=2 TYP=3	
	610	SGMR	20 GRF	1603.6	1603.6	3.4	24.0			QL=6 ST=2 TYP=2	
	410	SGMR	47 GB	1603.6	1603.6	13.0	100.0			QL=6 ST=2 TYP=5	
	930	BORD	8 S	1710.0	1710.0	.1	15.0	1.0			
	2800	OTTA	21 GRF	1745.0	1801.0	70.0	4.0	2.0			
	9400	HUAN	2 S/F	1841.9	1842.5	3.3	12.7	3.7		0	
	2300	OTTA	46F C	1842.0	1842.4	3.0	9.8	4.6			
	2800	OTTA	4 S/F	1912.2	1912.6	3.0	16.8	5.6			
	2800	OTTA	21 GRF	1925.0	1935.0	30.0	3.8	2.0			
	1415	SGMR	20 GRF	1925.0	1927.0	4.0	18.0				QL=6 ST=2 TYP=2
	9400	HUAN	22 GRF	1925.8	1933.1	36.2	14.1	6.5		0	
	4995	SGMR	4 S/F	1926.8	1927.6	2.5	30.0				QL=6 ST=2 TYP=3
	2800	OTTA	1 S	1927.3	1927.9	1.5	5.0	2.0			
	2800	OTTA	27A RF	2015.0		210.0	3.8	3.2			
	2800	OTTA	24 R	2015.0	2025.0	10.0	3.8	1.9			
	2800	OTTA	45 C	2015.2	2018.5	5.5	5.2	2.4			
	9400	HUAN	2 S/F	2015.3	2017.7	4.5	8.5	4.5		L	
	2695	PALE	47 GB	2020.1	2022.0	2.2	110.0				QL=1 ST=2 TYP=5
	2800	OTTA	24P R	2035.0		155.0	3.8				
	2000	TYKW	20 GRF	2225.0	2250.0	65.0	2.0	1.0			
	3750	TYKW	20 GRF	2235.0	2258.0	60.0	3.0	1.5			
	2695	PENT	26 FAL	2300.0	2335.0	35.0	-3.8	-1.9			
	30	610	LEAR	43 NS	0230.0	0249.0	122.8	35.0			QL=6 ST=2 TYP=1
410		LEAR	43 NS	0230.0	0735.0	455.0D	49.0			QL=6 ST=2 TYP=1	
100		GORK	44 NS	0412.0E		408.0D		15.0			
200		GORK	44 NS	0412.0E		468.0D		5.0			
200		HIRA	44 NS	0549.0E	0551.0	150.0D	10.0	5.0		WL	
100		HIRA	44 NS	0618.0E	0618.0	130.0D	70.0	60.0		WL	
260		ONDR	44 NS	0655.0E	1247.0U	432.0D	13.0U				
127		TORN	44 NS	0900.0E	1021.5	360.0D	30.0	3.0		V=1	
245		PALE	43 NS	1645.0	0220.8	675.0D	239.0				QL=6 ST=2 TYP=1
208		VORO	44 NS	2200.0E		300.0D		16.0			
200		HIRA	43 NS	2200.0	2357.0	420.0D	10.0	5.0		WL	
245		LEAR	43 NS	2222.0	0000.5	703.0D	139.0				QL=6 ST=2 TYP=1
208		VORO	45 C	0132.0		66.0	200.0D				
3750		TYKW	45 C	0134.0	0137.8	16.0	213.0	70.0			
2000		TYKW	45 C	0134.0	0137.8	16.0	99.0	34.0			
1000		TYKW	45 C	0134.0	0143.7	16.0	114.0	25.0			
2840		PEKG	45 C	0134.0	0137.8	26.0D	182.0	60.6U			
4995		LEAR	47 GB	0134.3	0137.6	37.0	300.0				QL=6 ST=2 TYP=5
8800		LEAR	47 GB	0134.5	0135.8	31.3	470.0				QL=6 ST=2 TYP=5
9400		TYKW	45 C	0134.5	0135.9	15.5	415.0	100.0			
500		HIRA	48 C	0134.5	0143.3	140.0	160.0	45.0		SL	
500		HIRA		0134.5	0238.0		110.0			SL	
9395		PEKG	45 C	0134.7	0137.8	22.0D	326.0	94.9U			
410		LEAR	47 GB	0134.8	0137.3	55.2	37.0				QL=6 ST=2 TYP=5
1415		LEAR	47 GB	0134.8	0137.3	32.2	62.0				QL=6 ST=2 TYP=5
610		LEAR	47 GB	0134.8	0137.5	55.2	40.0				QL=6 ST=2 TYP=5
2695		LEAR	47 GB	0134.8	0137.8	43.2	139.0				QL=6 ST=2 TYP=5
15400		LEAR	47 GB	0134.8	0137.8	52.2	270.0				QL=6 ST=2 TYP=5
17000		NOBE	7 C	0134.8	0137.8	11.0	216.0			L	
35000		NAGO	45 C	0135.0	0135.0	30.0	30.0				
35000		NAGO		0135.0	0138.0		70.0				
245		LEAR	47 GB	0135.0	0138.5	55.0	310.0				QL=6 ST=2 TYP=5
200		HIRA	46 C	0136.5	0137.1	.8	980.0	160.0		0	
100	HIRA	8 S	0136.8	0137.0	.3	360.0					
200	HIRA	48 C	0138.0	0139.3	251.0	7600.0	70.0		WL		
200	HIRA		0138.0	0216.0		260.0			ML		
100	HIRA	48 C	0138.7		2.4	10000.0D	8000.0D				
100	HIRA	48 C	0141.6	0228.0	262.0	1600.0	540.0		ML		
17000	NOBE	29 PBI	0145.0	0145.8	15.0	29.0			0		
2000	TYKW	30 PBI	0150.0		130.0	9.0	5.0				
3750	TYKW	30 PBI	0150.0		95.0	13.0	5.0				
9400	TYKW	29 PBI	0150.0		40.0	20.0	7.0				

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

SEPTEMBER 1982

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10-22 W/m ² Hz)	Mean			
30	1000	TYKW	30 PBI	0150.0		120.0	5.0	2.5			
	1000	TYKW	45 C	0151.0	0327.3	115.0	55.0	5.0			
	1000	TYKW		0151.0	0155.2		13.0				
	1000	TYKW		0151.0	0220.8		19.0				
		410	PALE	47 GB	0200.6E	0202.6	16.0D	89.0			QL=6 ST=2 TYP=5
		610	PALE	47 GB	0200.6E	0203.1	13.0D	62.0			QL=6 ST=2 TYP=5
		245	PALE	47 GB	0200.6E	0203.3	16.0D	160.0			QL=6 ST=2 TYP=5
		3750	TYKW	45 C	0200.8	0201.2	1.5	4.0	1.5		
		2000	TYKW	45 C	0201.0	0203.7	5.0	3.0	1.0		
		2695	PALE	8 S	0201.3E	0201.5	.7D	16.0			QL=6 ST=2 TYP=3
		3750	TYKW	5 S	0206.0	0207.5	5.0	3.0	1.0		
		2000	TYKW	5 S	0206.0	0207.5	4.0	4.0	1.5		
		245	PALE	47 GB	0216.8	0217.5	4.3	99.0			QL=6 ST=2 TYP=5
		1415	PALE	8 S	0244.1	0244.1	.2	13.0			QL=6 ST=2 TYP=3
		9400	TYKW	45 C	0328.5	0328.8	1.5	7.0	2.0		
		2000	TYKW	5 S	0428.0	0431.0	11.0	2.5	1.0		
		1000	TYKW	45 C	0428.0	0431.1	5.0	21.0	2.0		
		650	GORK	21 GRF	0442.0		387.0	4.0			
		950	GORK	20 GRF	0551.8	0712.0	163.7	7.0			
		9400	TYKW	45 C	0614.0	0617.1	5.0	23.0	6.0		
		6100	KISV	4 S/F	0614.5	0617.1	6.0	14.0	.3		
		8800	LEAR	4 S/F	0615.1	0617.0	5.0	29.0			QL=6 ST=2 TYP=3
		9100	GORK	21 GRF	0615.3	0618.2	39.9	9.0			
		9100	GORK	1 S	0616.6	0617.0	1.0	18.0	9.0		
		9400	TYKW	29 PBI	0619.0		10.0	6.0	3.0		
		6100	KISV	29 PBI	0620.5	0620.5	10.0	3.0			
		1000	TYKW	45 C	0637.0	0637.1	1.0	16.0	3.0		
		536	ONDR	40 F	0721.0	0828.0	130.0	10.0U			
		9100	GORK	21 GRF	0836.0	0842.1	29.6	13.0			
		9100	GORK	1 S	0836.8	0837.2	.9	20.0	10.0		
		4995	LEAR	8 S	0837.1	0837.1	1.0	17.0			QL=6 ST=2 TYP=3
		8800	LEAR	8 S	0837.1	0837.1	1.0	27.0			QL=6 ST=2 TYP=3
		4995	ATHN	4 S/F	0838.0	0838.3	4.3	15.0			QL=6 ST=2 TYP=3
		8800	ATHN	8 S	0838.3	0839.0	1.2	3.0			QL=6 ST=2 TYP=3
		9100	GORK	1 S	0839.4	0839.7	.6	8.0	4.0		
		410	LEAR	8 S	0853.8	0853.8	.2	13.0			QL=5 ST=2 TYP=3
		245	LEAR	8 S	0853.8	0853.8	.2	22.0			QL=5 ST=2 TYP=3
		650	GORK	4 S/F	0922.3	0923.0	1.0	7.0	3.5		
		6100	KISV	46 C	0935.6	0937.3	7.5	20.0			
		6100	KISV		0935.6	0939.7		11.0			
		6100	KISV	29 PBI	0943.1	0943.2	14.0	6.0			
		930	BORD	41 F	0959.2	0959.4	.6	21.0	2.0		
		9100	GORK	22 GRF	1033.6	1036.7	12.1	15.0			
		6100	KISV	4 S/F	1036.0	1037.0	3.5	29.0			
		4995	ATHN	8 S	1036.5	1037.1	1.5	13.0			QL=6 ST=2 TYP=3
	8800	ATHN	8 S	1036.6	1037.1	1.4	7.0			QL=6 ST=2 TYP=3	
	930	BORD	8 S	1100.6	1100.6	.1	14.0	1.0			
	3100	BERN	3 S	1203.8	1205.0	4.0	16.0U				
	5200	BERN	3 S	1203.8	1205.0	8.0	35.0U				
	8400	BERN	3 S	1203.8	1205.0	8.0	32.0U				
	9400	HUAN	3 S	1203.9	1204.9	3.1	27.5	13.0		L	
	3000	POTS	3 S	1203.9	1205.0	3.9	13.0				
	9500	POTS	3 S	1204.0	1205.0	5.0	29.0				
	4995	SGMR	47 GB	1204.1	1204.8	2.5	60.0			QL=6 ST=2 TYP=5	
	6100	KISV	2 S/F	1204.5	1205.0	3.2	37.0				
	8800	SGMR	8 S	1204.6	1205.0	1.2	21.0			QL=6 ST=2 TYP=3	
	8800	ATHN	4 S/F	1204.6	1205.5	6.2	36.0			QL=6 ST=2 TYP=3	
	4995	ATHN	4 S/F	1204.6	1205.5	6.2	48.0			QL=6 ST=2 TYP=3	
	2695	ATHN	4 S/F	1204.6	1205.6	6.2	17.0			QL=6 ST=2 TYP=3	
	1415	SGMR	8 S	1206.6	1206.8	1.2	19.0			QL=6 ST=2 TYP=3	
	9400	HUAN	29 PBI	1207.0	1207.0	19.3	8.2	3.8		L	
	15400	SGMR	8 S	1207.8	1209.6	1.8D	41.0			QL=6 ST=2 TYP=3	
	430	KRAK	8 S	1301.8	1301.9	.2	230.0				
	2800	OTTA	21 GRF	1340.0	1400.0	60.0	7.4	3.7			
	9400	HUAN	21 GRF	1342.2	1356.7	24.8	6.9	2.4		L	
	930	BORD	8 S	1342.6	1342.6	.1	122.0	1.0			
	2800	OTTA	4 S/F	1350.0	1353.0	8.0	12.4	5.8			
	9400	HUAN	4 S/F	1351.2	1352.6	4.2	15.1	10.2		L	
	9400	HUAN		1351.2	1353.3		14.4			L	
	5200	BERN	4 S/F	1351.6	1353.3	9.0	18.0U				
	3100	BERN	4 S/F	1351.6	1353.3	9.0	15.0U				

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

37
Sep 82

SEPTEMBER 1982

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10-22)	Mean (W/m ² Hz)		
30	8800	ATHN	4 S/F	1352.1	1353.3	6.2	29.0			QL=6 ST=2 TYP=3
	4995	ATHN	4 S/F	1352.1	1353.6	6.2	31.0			QL=6 ST=2 TYP=3
	810	KRAK	8 S	1352.3	1352.5	.3	19.0			
	930	BORD	8 S	1352.8	1352.8	.1	64.0	1.0		
	4995	SGMR	8 S	1353.0	1353.1	1.3	27.0			QL=6 ST=2 TYP=3
	9400	HUAN	20 GRF	1525.1	1544.4	33.8	4.1	2.6		0
	9400	HUAN	20 GRF	1630.2	1632.7	18.8	8.2	6.7		0
	410	PALE	8 S	1909.6	1909.8	1.0	22.0			QL=6 ST=2 TYP=3
	9400	HUAN	20 GRF	2002.3	2007.8	47.5	11.0	5.1		0
	2800	OTTA	20 GRF	2110.0	2215.0	180.0D	16.4			
	1000	TYKW	20 GRF	2145.0	2205.0	80.0	6.0	3.0		
	2000	TYKW	21 GRF	2145.0	2217.0	270.0	8.0	4.0		
	3750	TYKW	21 GRF	2145.0	2217.0	270.0	12.0	5.0		
	9400	TYKW	21 GRF	2155.0	2217.0	125.0	6.0	3.0		
	9400	TYKW	5 S	2225.0	2229.0	9.0	5.0	2.0		
	410	LEAR	4 S/F	2331.8	2334.8	3.8	48.0			QL=6 ST=2 TYP=3
	3750	TYKW	5 S	2335.0	2338.5	7.0	13.0	5.0		
	1415	LEAR	4 S/F	2335.6	2336.6	6.4	10.0			QL=6 ST=2 TYP=3
	2695	LEAR	4 S/F	2335.8	2338.6	6.3	8.0			QL=6 ST=2 TYP=3
	1000	TYKW	45 C	2336.0	2337.6	4.0	4.0	1.0		
	9400	TYKW	5 S	2336.0	2338.5	4.0	29.0	7.0		
	8800	PALE	8 S	2337.5	2338.5	1.6	34.0			QL=6 ST=2 TYP=3
	8800	LEAR	4 S/F	2337.5	2338.5	6.8	34.0			QL=6 ST=2 TYP=3
	2695	PALE	8 S	2337.6	2337.6	.4	13.0			QL=6 ST=2 TYP=3
	2000	TYKW	5 S	2338.0	2338.6	3.0	4.0	1.0		
	4995	PALE	8 S	2338.3	2338.5	.3	16.0			QL=6 ST=2 TYP=3
	4995	LEAR	4 S/F	2338.3	2338.5	5.3	20.0			QL=6 ST=2 TYP=3
	15400	LEAR	8 S	2338.3	2338.6	1.2	13.0			QL=6 ST=2 TYP=3
	610	LEAR	8 S	2338.6	2339.0	1.0	10.0			QL=6 ST=2 TYP=3
	410	LEAR	8 S	2339.1	2339.3	1.4	21.0			QL=6 ST=2 TYP=3
410	PALE	8 S	2339.1	2340.0	1.2	29.0			QL=2 ST=3 TYP=3	
245	PALE	8 S	2339.6	2340.1	.7	30.0			QL=2 ST=3 TYP=3	
9400	TYKW	29 PBI	2340.0		17.0	5.0	2.5			
245	LEAR	8 S	2340.1	2340.3	1.0	19.0			QL=6 ST=2 TYP=3	
200	HIRA	42 SER	2340.6	2346.3	14.0	310.0			ML	
3750	TYKW	29 PBI	2342.0		25.0	5.0	2.0			
245	LEAR	47 GB	2342.8	2345.5	3.8	90.0			QL=6 ST=2 TYP=5	

Reports are received routinely from the following observatories:

ATHN = Athens	HUAN = Huancayo	NAGO = Nagoya	POTS = Potsdam
BERN = Berne	IRKU = Irkutsk	NOBE = Nobeyama	SAOP = Sao Paulo
BORD = Bordeaux	IZMI = IZMIRAN	ONDR = Ondrejov	SGMR = Sagamore Hill
CRIM = Crimea	KISV = Kislovodsk	OTTA = Ottawa	TORN = Torun
DWIN = Dwingeloo	KRAK = Krakow	PALE = Palehua	TYKW = Toyokawa
GORK = Gorky	LEAR = Learmonth	PEKG = Peking	TRST = Trieste
HIRA = Hiraiso	MANI = Manila	PENT = Penticton	UPIC = Upice
			VORO = Voroshilov

Explanation of Type Code:

1 Simple 1	7 Minor +	24 Rise	30 Post Burst Increase A	43 Onset of Noise Storm
2 Simple 1F	8 Spike	25 Rise A	31 Post Burst Decrease	44 Noise Storm In Progress
3 Simple 2	20 Simple 3	26 Fall	33 Absorption	45 Complex
4 Simple 2F	21 Simple 3A	27 Rise and Fall	40 Fluctuation	46 Complex F
5 Simple	22 Simple 3F	28 Precursor	41 Group of Bursts	47 Great Burst
6 Minor	23 Simple 3AF	29 Post Burst Increase	42 Series of Bursts	48 Major
				49 Major +

1A Simple 1A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F
3A Simple 2A	24O Rise only	16A Fall A	27AF Rise and Fall AF
21A Simple 3A GRF	240F Rise only F	26O Fall Only	31A Post Burst Decrease A
2A Simple 1AF	24P Post Rise	26F Fall F	32A Absorption A
			46F Complex F

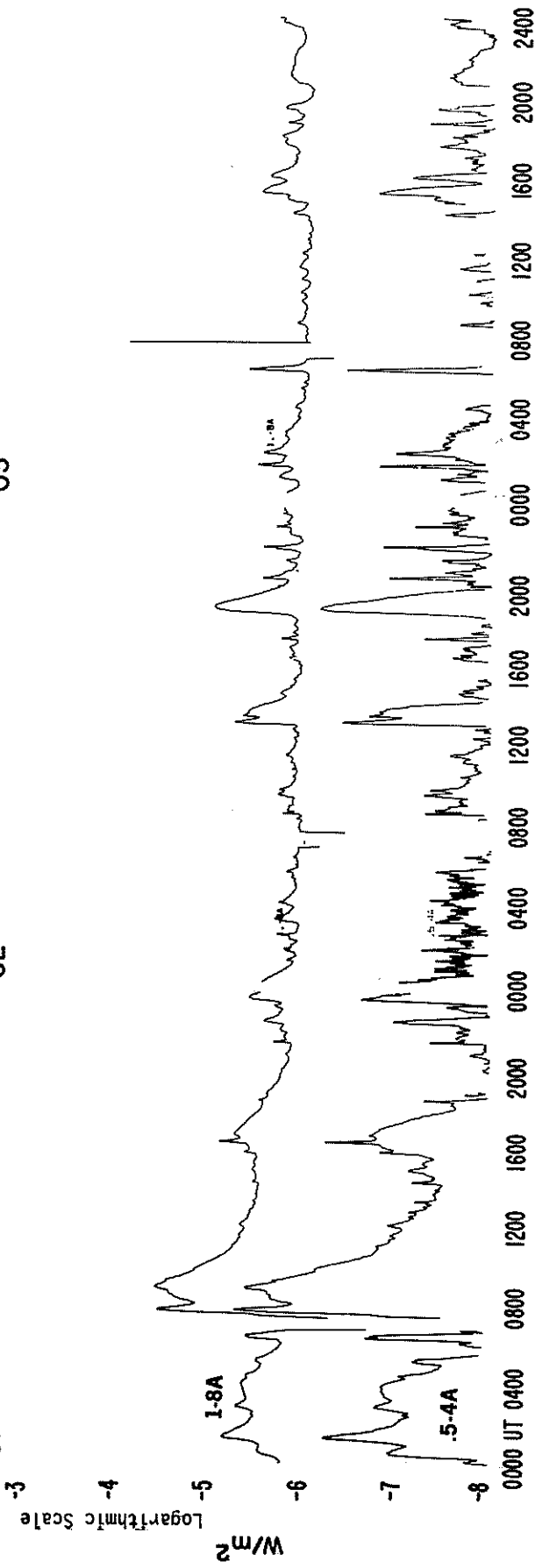
SMS-GOES X-RAYS

SEPTEMBER 1982

03

02

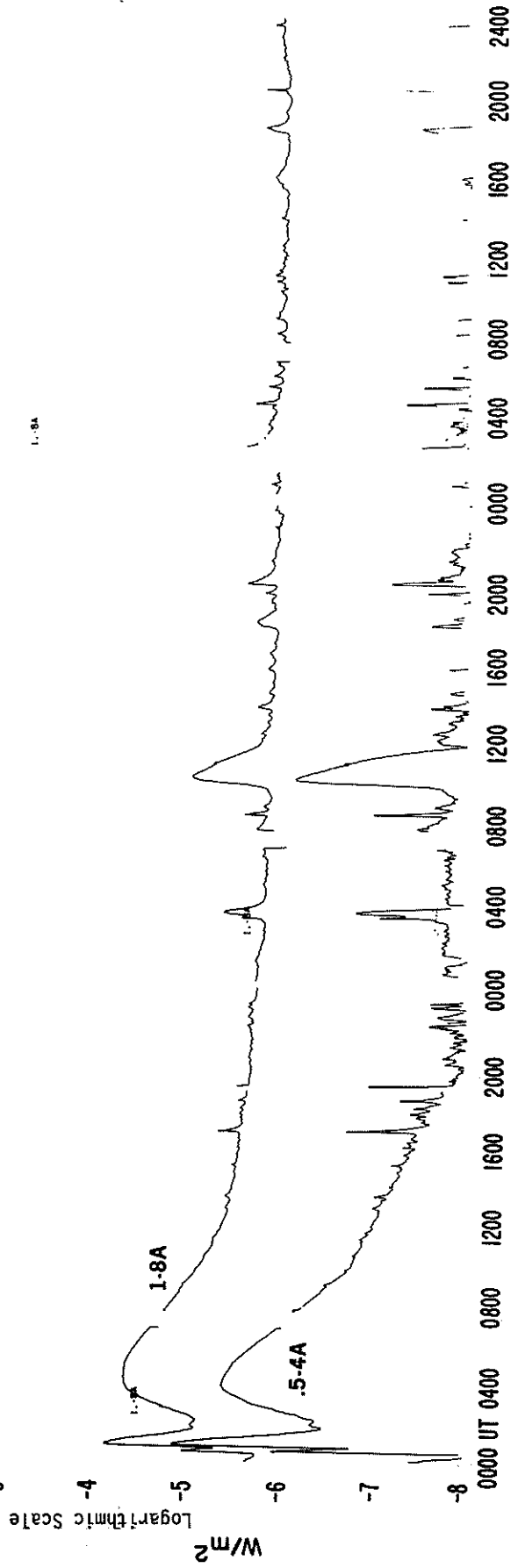
01



06

05

04



SMS-GOES X-RAYS

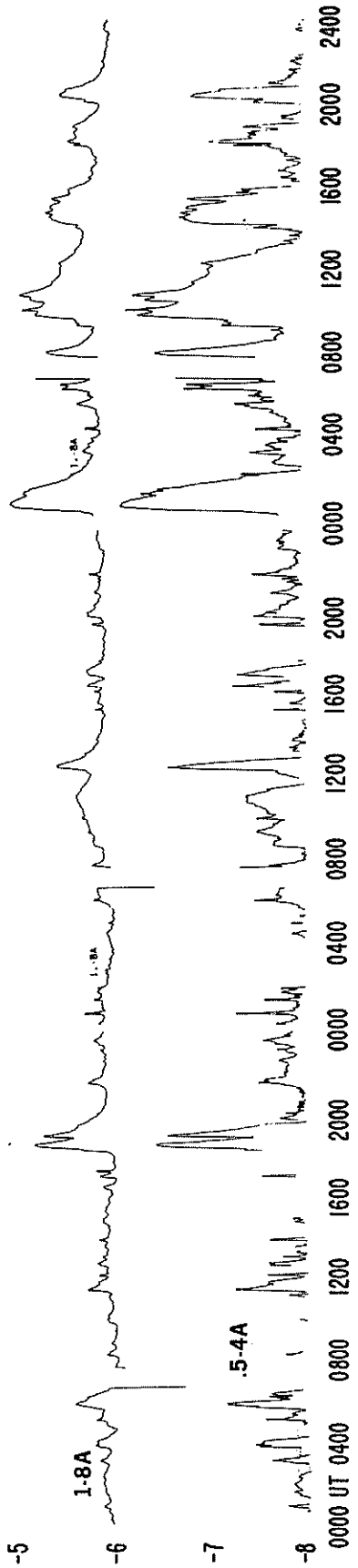
SEPTEMBER 1982

07

06

09

Logarithmic Scale
W/m²

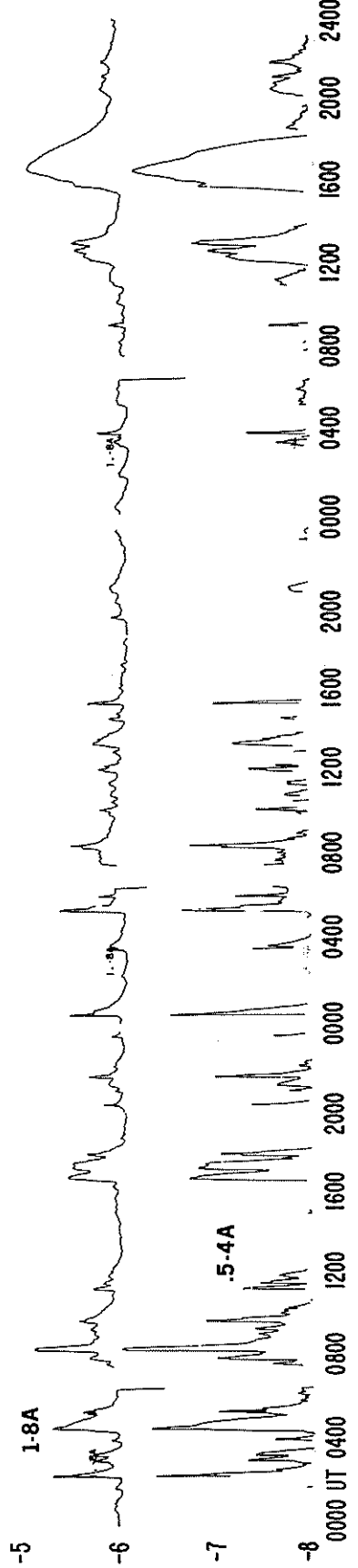


10

11

12

Logarithmic Scale
W/m²



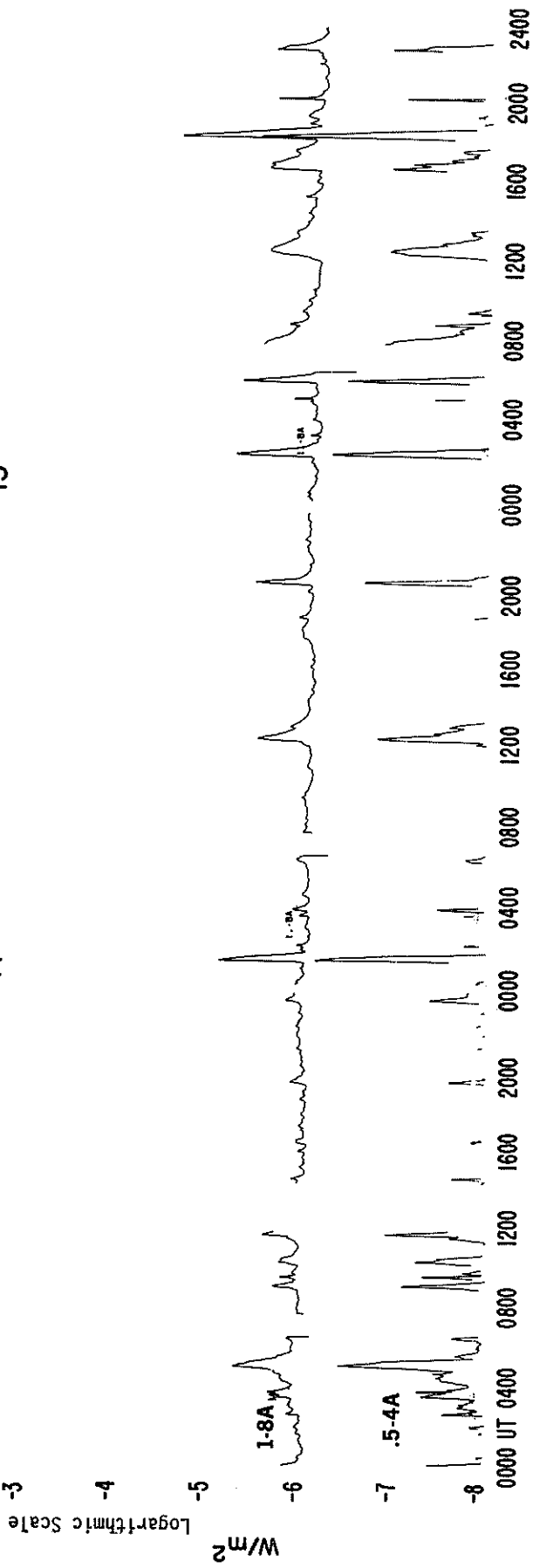
SMS-GOES X-RAYS

SEPTEMBER 1982

15

14

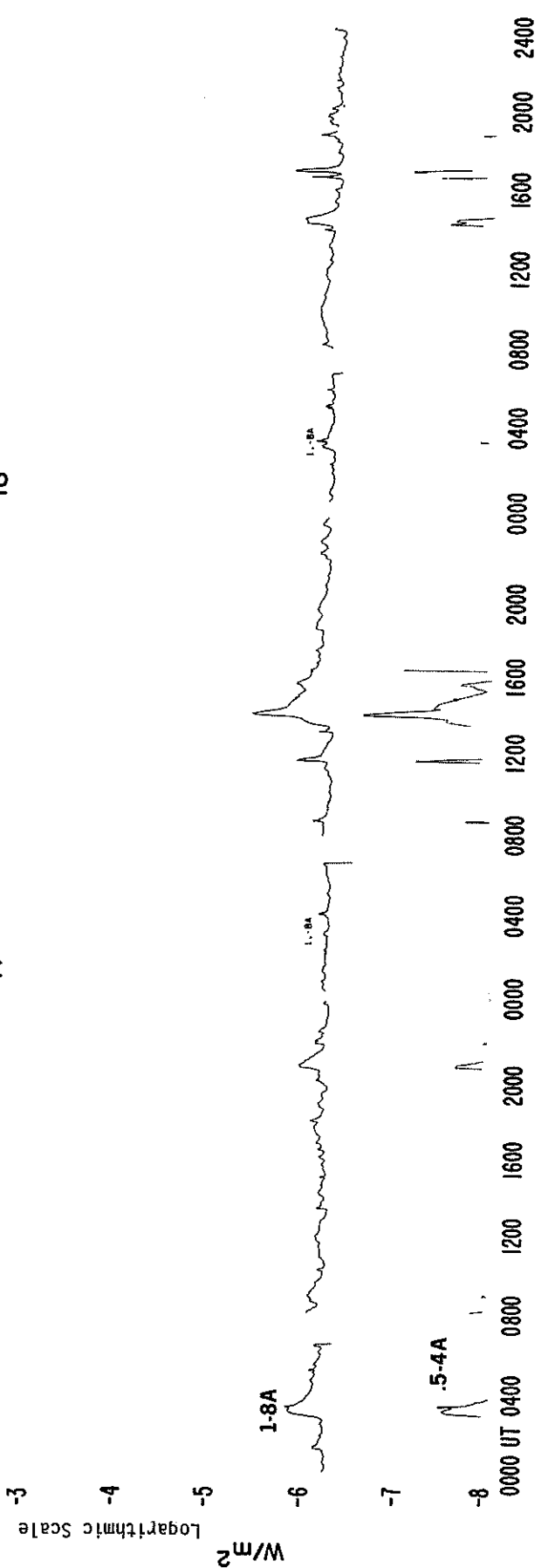
13



18

17

16



SMS-GOES X-RAYS

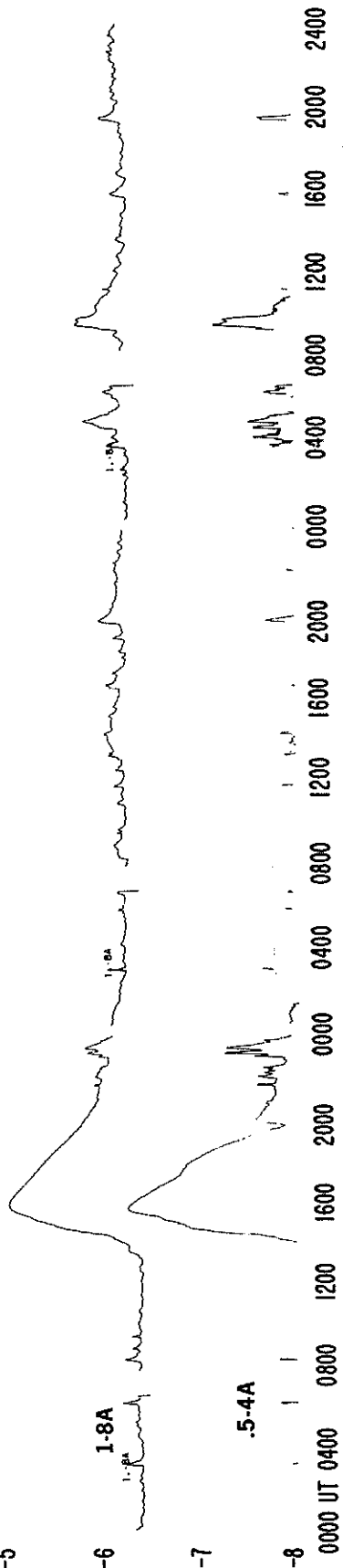
SEPTEMBER 1982

19

20

21

Logarithmic Scale
 W/m^2

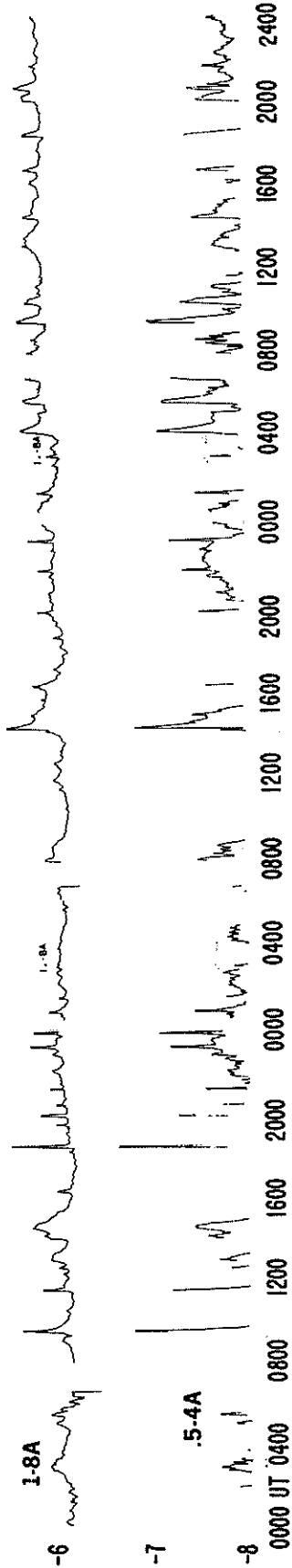


22

23

24

Logarithmic Scale
 W/m^2



SMS-GOES X-RAYS

SEPTEMBER 1982

25

-3

-4

-5

-6

Logarithmic Scale

W/m²

26

27

1-8A

-7

-8

5-4A

0000 UT

0400

0800

1200

1600

2000

0000

0400

0800

1200

1600

2000

0000

0400

0800

1200

1600

2000

2400

28

-3

-4

-5

-6

-7

-8

0000 UT

0400

0800

1200

1600

2000

0000

0400

0800

1200

1600

2000

0000

0400

0800

1200

1600

2000

2400

30

1-8A

-7

-8

5-4A

0000 UT

0400

0800

1200

1600

2000

0000

0400

0800

1200

1600

2000

0000

0400

0800

1200

1600

2000

2400

MASS EJECTIONS FROM THE SUN

September 1982

Sta	Day	Observed UT			Location		Freq or Wavelength	Kind of Event
		Start	Max	End	RA°	R/R ₀		
ABST	Sep 01	0477	0536	0701	287	1.00	H-alpha	A
KHAR	Sep 01	0817E		0848D	078	1.00	H-alpha	SP
KHAR	Sep 01	0817E		0858D	081	1.00	H-alpha	SP
KHAR	Sep 01	0817E		0947D	087	0.91	H-alpha	SP
KHAR	Sep 01	0817E		0933D	084	0.77	H-alpha	S
KHAR	Sep 01	0912E		0949D	084	0.77	H-alpha	S
KHAR	Sep 01	1049E		1126D	129	0.67	H-alpha	S
KHAR	Sep 01	1100E		1126D	045	0.20	H-alpha	S
ABST	Sep 02	0429	0631	0652	080	1.00	H-alpha	A
PALE	Sep 04	0046.9		0050.8			Meter	II
CULG	Sep 04	0056.5		0116.5			Meter	II
LEAR	Sep 04	0057.0		0117.5			Meter	II
PALE	Sep 04	0057.5		0107.8			Meter	II
CULG	Sep 04	0236.0		0248.5			Meter	Possible II
LEAR	Sep 04	0237.0		0700.0			Meter	IV
WEND	Sep 04	1455	1502	1528	102	1.0	H-alpha	S
WEND	Sep 05	0742	0748	0758	258	0.99-1.02	H-alpha	S
WEND	Sep 05	0922	0948	1000	258	0.99-1.02	H-alpha	S
WEND	Sep 05	1035	1050	1222	100	0.98-1.03	H-alpha	A (Loop)
KHAR	Sep 05	1048E		1113D	275	0.89	H-alpha	S
KHAR	Sep 07	0757E		0900D	298	0.88	H-alpha	S
KHAR	Sep 07	0950E		1026D	074	0.70	H-alpha	S
KHAR	Sep 07	1020E		1103D	277	0.45	H-alpha	S
KHAR	Sep 07	1115E		1200D	277	0.45	H-alpha	S
KHAR	Sep 07	1144E		1200D	287	0.97	H-alpha	S
KHAR	Sep 07	1145E		1200D	298	0.88	H-alpha	S
HARV	Sep 07	2108.0		2110.0			Meter	II
CULG	Sep 07	2108.5		2112.0			Meter	II
ABST	Sep 08	0515	0535	0715	256	1.00	H-alpha	Q
LEAR	Sep 09	0012.2		0203.5			Meter	IV
PALE	Sep 09	0016.6		0027.7			Meter	II
CULG	Sep 09	0021.5		0039.0			Meter	Possible II
PALE	Sep 09	0027.7		0035.9			Meter	IV
KHAR	Sep 09	0937E		1000D	126	0.53	H-alpha	S
KHAR	Sep 09	0955E	1002	1032D	279	0.82-1.07	H-alpha	SP
KHAR	Sep 09	1148E		1158D	103	1.00	H-alpha	S
ABST	Sep 11	0525	0525	0545	281	1.00	H-alpha	SP
KHAR	Sep 11	1055E		1200D	157	0.50	H-alpha	S
KHAR	Sep 12	1008E		1030D	103	0.98	H-alpha	S
HARV	Sep 12	1550.0		1623.0			Decimeter; meter	IV
CULG	Sep 13	0508.0		0513.5			Meter	Possible II
CULG	Sep 14	0120.0		0135.0			Meter	II
LEAR	Sep 14	0120.0		0143.5			Meter	II
PALE	Sep 14	0120.0		0132.0			Meter	II
KHAR	Sep 14	0815E		0840D	095	0.77	H-alpha	S
WEND	Sep 14	0834	0849	0900	073	0.98-1.02	H-alpha	S
HARV	Sep 14	2030.0		2034.0			Meter	II
CULG	Sep 15	0608.0		0620.5			Meter	II
WEIS	Sep 15	0608.6		0619.6			30-120 MHz	II Harmonic
LEAR	Sep 15	0608.8		0621.0			Meter	II
CULG	Sep 15	0615.0		0700.0			Meter	IV Weak
WEND	Sep 15	0813	0820	0838	079	0.98-1.03	H-alpha	S
WEND	Sep 15	0858	0912	0917	079	0.98-1.04	H-alpha	S
HARV	Sep 15	1827.0		1851.0			Decimeter; meter	II
PALE	Sep 15	1829.2		1842.3			Meter	II
SGMR	Sep 15	1830.7		1837.0			Meter	II
KHAR	Sep 17	1001E		1032D	088	0.48	H-alpha	S

MASS EJECTIONS FROM THE SUN

September 1982

Sta	Day	Observed UT			Location		Freq or Wavelength	Kind of Event
		Start	Max	End	RA°	R/R ₀		
HARV	Sep 19	1445.0		2250.0			Deci; meter; deka	IV
WEIS	Sep 19	1459		1521			30-60 MHz	II Reverse slope
WEIS	Sep 19	1507		1654			30-260 MHz	IV
KHAR	Sep 21	1108E		1120D	313	0.27	H-alpha	S
KHAR	Sep 22	0953E		1000D	298	0.30	H-alpha	S
KHAR	Sep 22	1121E		1148D	298	0.30	H-alpha	S
HARV	Sep 22	1826.0		1832.0			Meter	II
VORO	Sep 22	2316	2320	2327	286.5	0.43	H-alpha	SP
VORO	Sep 22	2356	2400	2407	286.0	0.43	H-alpha	SP
ABST	Sep 24	0635	0638	0650	092	1.00	H-alpha	SP
WEND	Sep 24	1106E	1116	1154D	090	1.0	H-alpha	S
KHAR	Sep 26	0919E		0928D	258	1.00	H-alpha	S
KHAR	Sep 26	1110E		1030D	124	0.60	H-alpha	S
KHAR	Sep 26	1117E		1130D	258	1.00	H-alpha	S
KHAR	Sep 26	1120E		1130D	120	0.60	H-alpha	S
VORO	Sep 26	2346		2350	070.0	0.5	H-alpha	SP
KHAR	Sep 27	1001E		1032D	088	0.48	H-alpha	S
HARV	Sep 29	1523.0		1615.0			Decimeter	IV
VORO	Sep 30	0102		0219	355.5	0.1	H-alpha	SP
CULG	Sep 30	0136.0		0542.0			Decimeter	IV
CULG	Sep 30	0137.0		0142.0			Meter	II
PALE	Sep 30	0138.9		0140.1			Meter	II
CULG	Sep 30	0142.9		0345.0			Meter	IV
LEAR	Sep 30	0147.0		0932.0			Meter	IV
CULG	Sep 30	0150.0		0155.0			Meter	II
CULG	Sep 30	0345.0		0613.5			Meter	IV
ABST	Sep 30	0524	0536	0700	090	1.00	H-alpha	Q
CULG	Sep 30	0613.5		0722.0			Meter	IV

QUALIFIERS ON START, MAX AND END TIMES
 D = event ended after tabulated time
 E = event began before the tabulated time
 U = uncertain time

TYPE OF EVENT
 A = eruptive active region prominence
 CB = coronal cloud bubble
 D = coronal depletions
 E = coronal enhancement
 EL = coronal expanding loop
 II = Type II radio burst
 IVm = moving Type IV radio burst
 Q = eruptive quiescent prominence
 R = coronal ray or streamer
 S = flare-surge if there is a known flare association
 SP = flare-spray if there is a known flare association
 * = movement may be caused by ionospheric refraction

REPORTING STATIONS
 ABST = Abastumani
 BIGB = Big Bear
 BLEN = Bleien
 CULG = Culgoora
 DWIN = Dwingeloo
 GEOR = Georgiana
 HALE = Haleakala
 HAOC = High Altitude Observatory's SMM
 Coronagraph/Polarimeter
 HAOK = High Altitude Observatory's MARK-III
 Coronameter at Mauna Loa
 HARV = Harvard (Fort Davis)
 KHAR = Kharkov
 LEAR = Learmonth
 LVOV = Lvov
 MANI = Manila
 MITK = Mitaka
 NRLC = Naval Research Laboratory's White-Light
 Coronagraph Experiment on P78-1
 PALE = Palehua
 SGMR = Sagamore Hill
 TELV = Tel Aviv
 VORO = Voroshilov
 WEIS = Weissenau
 WEND = Wendelstein
 UDAI = Udairpur

SGD 463 Part II (Comprehensive)

SEPTEMBER 1980 DATA

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H - ALPHA SOLAR FLARES

SEPTEMBER 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
295	BIGB	01 0003	0006	0033	S11	E26	.524	17089	3.0	30	-N	3 C	0006	60	.7	
GRP87296	01	0013+9	0022 0030	0031	N13	E27	.457	17098	3.0	18	-F					
	LEAR	01 0013	0030	0033	N12	E28	.470	17098	3.1	20	-F	* C		32		
	PALE	01 0022	0022	0028	N15	E27	.463	17098	3.0	6	-F	* C		50		
297	BIGB	01 0014	0021 IMP.1	0028	N29	E90	.998	17096	7.8	14	?N	3 C	0021	80		
																NO : CULG PALE
298	PALE	01 0033	0036	0048	N14	E26	.445	17098	3.0	15	-F	* C		62		
GRP87299	01	0121+9	0131+7 0149	0156	N13	E27	.457	17098	3.1	35	-N			130	1.5	EJ
	VORO	01 0121	0135	0150	N15	E27	.463	17098	3.1	29	1N	P	0135	242	2.8	EJ
	CULG	01 0127	0134	0146	N13	E26	.442	17098	3.0	19	-N	C	0134	160	1.8	
	BIGB	01 0129	0133	0153D	N14	E26	.445	17098	3.0	24D	-N	3 P	0133	90	1.0	
	LEAR	01 0130	0131	0156	N13	E27	.457	17098	3.1	26	-N	3 C		102		D
	MITK	01 0130	0133	0205	N14	E27	.460	17098	3.1	35	-N	C	0133			E
	PURP	01 0132	0138	0202	N13	E26	.442	17098	3.0	30	1B	C				
	CULG	01 0146	0149	0154	N10	E28	.467	17098	3.2	8	-N	C	0149	80	.9	
300	LEAR	01 0205	0205	0212	S07	E23	.454	17089	2.8	7	-N	3 C		29		
301	LEAR	01 0227	0229	0254	S10	E26	.516	17089	3.1	27	-N	3 C		73		
GRP87302	01	0234+9	0237 0246+6	0304	S07	E32	.573	17100	3.5	30	-N					D
	LEAR	01 0234	0237	0304	S03	E34	.580	17100	3.7	30	-N	3 C		25		D
	CULG	01 0239	0246	0313	S10	E32	.591	17100	3.5	34	-N	C	0246	100	1.2	
	PALE	01 0244	0252	0259	S07	E31	.559	17100	3.4	15	-F	3 C		49		
303	LEAR	01 0350	0350	0354	S07	E22	.440	17089	2.8	4	-F	3 C		35		
GRP87304	01	0416+0	0418+1	0430	S04	E33	.570	17100	3.7	14	-N			100	1.2	E
	LEAR	01 0416	0419	0430	S04	E33	.570	17100	3.7	14	-N	3 C		106		
	CULG	01 0416	0419	0438	S04	E33	.570	17100	3.7	22	-N	C	0419	100	1.2	
	TACH	01 0416	0418	0424	S02	E34	.576	17100	3.7	8	-F	C	0418	88	1.1	E
305	CULG	01 0431	0439	0446	S03	E22	.410	17089	2.8	15	-F	C	0439	80	.9	
GRP87306	01	0518+2	0524+5	0556	S06	E20	.405	17089	2.7	38	-N			170	1.9	JK
	CULG	01 0518	0529	0607	S07	E20	.414	17089	2.7	49	1N	C	0529	180	2.0	
	LEAR	01 0519	0524	0526D	S07	E20	.414	17089	2.7	7D	-B	3 C		90		D
	TACH	01 0519	0529	0545	S05	E21	.411	17089	2.8	26	-F	C	0529	176	2.0	E
	YUNN	01 0520E	0525	0536	S07	E20	.414	17089	2.7	16D	-N	C		161	1.8	
	ABST	01 0520	0526	0612	S05	E20	.397	17089	2.7	52	1N	C	0526	210	2.4	FJK
307	ABST	01 0544	0545	0549	N11	E18	.312	17098	2.6	5	-F	C	0545	79	.9	DVZ
308	LEAR	01 0635	0635	0640	S03	E32	.552	17100	3.7	5	-F	3 C		25		
309	ABST	01 0641	0642	0644	N13	E17	.304	17098	2.6	3	-F	C	0642	79	.9	DVZ
GRP87310	01	0651+9	0654+9	0715	S08	E21	.436	17089	2.9	24	-N			140	1.6	EJ
	CULG	01 0651	0657	0712	S09	E20	.433	17089	2.8	21	-F	C	0657	130	1.5	F
	ABST	01 0653	0655	0716	S11	E23	.488	17089	3.0	23	-N	C	0655	157	1.9	EJ
	PURP	01 0654	0704	0738	S09	E22	.458	17089	2.9	44	-N	C				E
	KHAR	01 0654E	0654	0713D	S07	E19	.402	17089	2.7	19D	-F	P	0654			E
	KHAR	01 0654E	0656	0721D	S09	E24	.483	17089	3.1	27D	-F	P				E
	LEAR	01 0657	0700	0708	S07	E20	.414	17089	2.8	11	-N	3 C		30		
	ABST	01 0657	0702	0717	S06	E19	.392	17089	2.7	20	-F	C	0702	148	1.7	EJ
	I STA	01 0700		0709	S07	E22	.440	17089	2.9	9	-N					E
GRP87311	01	0657+8	0703+4	0712	N12	E18	.315	17098	2.6	15	-N			60	.6	DZ
	CULG	01 0657	0707	0712	N12	E18	.315	17098	2.6	15	-N	C	0707	40	.4	
	KHAR	01 0659E	0707	0714D	N12	E18	.315	17098	2.6	15D	-F	P				E
	ABST	01 0659	0703	0711	N11	E16	.280	17098	2.5	12	-N	C	0703	79	.9	DZ
	PURP	01 0701	0703	0712	N12	E18	.315	17098	2.6	11	-B	C				D
	I STA	01 0705	0707	0709	N13	E19	.335	17098	2.7	4	-B					D

H - ALPHA SOLAR FLARES

SEPTEMBER 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale		CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement			Remarks	
							cen Dist	Plage Region					Time (UT)	Appar (Disk)	Corr (Sq Deg)		
GRP87312	01	0721E	0726+1	0739	S07	E20	.414	17089	2.8	18	-F					J	
KHAR	01	0721E	0727	0741D	S05	E22	.424	17089	3.0	20D	-F	*	P			D	
ABST	01	0724E	0726	0736	S09	E19	.421	17089	2.7	12D	1F	*	P	0726	201	2.3	EJ
313 KHAR	01	0726E	0727	0738D	N10	E11	.195	17098	2.1	12D	-F		P	0727	60	.7	
GRP87314	01	0734+1	0736+1	0740	S03	E31	.538	17089	3.6	6	-F						
LEAR	01	0734	0736	0737	S03	E31	.538	17089	3.6	3	-F	3	C		26		
ABST	01	0735	0737	0740	S04	E29	.515	17089	3.5	5	-F		C	0737	87	1.0	D
PURP	01	0738E	0738	0743	S02	E31	.534	17089	3.6	5D	-N		C				E
GRP87315	01	0747	0749+4	0802	S08	E18	.399	17089	2.7	15	-F						
ABST	01	0747	0749	0801	S09	E18	.409	17089	2.7	14	-F		C	0749	87	1.0	DJ
KHAR	01	0750E	0753	0803D	S07	E18	.389	17089	2.7	13D	-F		P				D
316 KHAR	01	0748E	0749	0804D	N10	E23	.389	17098	3.0	16D	-F		P	0755	50	.5	DH
GRP87317	01	0809	0811+1	0826	N14	E20	.355	17098	2.8	17	-F						
ABST	01	0809	0811	0823	N14	E21	.370	17098	2.9	14	-F		C	0811	131	1.4	E
KHAR	01	0810E	0812	0829D	N14	E20	.355	17098	2.8	19D	-N		P	0812			D
GRP87318	01	0809+3	0812+3	0825	N17	E90	.999	17095	8.1	16	-B						
KHAR	01	0809E	0812	0826D	N15	E90	.999	17095	8.1	17D	1N	*	P	0812			ADH
ISTA	01	0812	0815	0823	N19	E90	.999	17095	8.1	11	-B	*					AD
319 ABST	01	0833E	0835	0843	N09	E21	.356	17098	2.9	10D	-F		P	0835	175	1.9	E
GRP87320	01	0839+1	0843+1	0855	N17	W09	.228	17086	31.7	16	-N				90	.9	D
ABST	01	0839	0843	0850	N17	W09	.228	17086	31.7	11	-N		C	0843	96	1.0	D
CATA	01	0840	0840	0840D	N17	W09	.155	17086	31.7		-F	2	P	0840	84	.9	
LEAR	01	0840	0844	0859	N17	W08	.217	17086	31.8	19	-N	3	C		92		
GRP87321	01	0845	0901	0954	N10	E22	.373	17098	3.0	69	-F				50	.5	
CATA	01	0845	0945	0955D	N07	E18	.307	17098	2.7	70D	-F	*	P	0945	67	.8	
KHAR	01	0900E	0901	0910D	N12	E17	.300	17098	2.6	10D	-F	*	P				E
KHAR	01	0922E	0925	0928D	N13	E18	.320	17098	2.7	6D	-F	*	P	0925			D
ABST	01	0938	0940	0953	N10	E25	.421	17098	3.3	15	-N	*	C	0940	70	.8	D
KHAR	01	0938E	0940	0959D	N10	E24	.405	17098	3.2	21D	-F	*	P	0945	50	.6	D
KHAR	01	0939E	0945	0955D	N12	E18	.315	17098	2.8	16D	-F	*	P				E
YUNN	01	0942	0946	0951	N10	E24	.405	17098	3.2	9	-N	*	C		32	.4	
322 KHAR	01	0935E	0939	0945D	S28	W49	.857	17083	28.7	10D	-F		P				D
GRP87323	01	0944+1	0946+1	1002	S07	E18	.389	17089	2.8	18	-F				110	1.2	EJ
ABST	01	0944	0947	1002	S07	E19	.402	17089	2.8	18	-F		C	0947	140	1.6	EJ
YUNN	01	0945	0946	0953	S07	E17	.376	17089	2.7	8	-N		C		64	.7	
KHAR	01	0945E	0947	1047D	S07	E18	.389	17089	2.8	62D	-F		P	0949	110	1.2	E
KANZ	01	0945E		1001	S07	E19	.402	17089	2.8	16D	-F	2					
GRP87324	01	1039+2	1040+1	1053	S12	E21	.475	17089	3.0	14	-N						
KHAR	01	1039E	1040	1053D	S12	E21	.475	17089	3.0	14D	-N		P	1040			
CATA	01	1040	1040	1100	S12	E21	.475	17089	3.0	20	-F	2	C	1040	112	1.3	
KANZ	01	1041	1041	1045	S12	E21	.475	17089	3.0	4	-N	2					
325 KHAR	01	1053E	1053	1107D	N12	E17	.300	17098	2.7	14D	-N		P				
326 KHAR	01	1110E	1110	1114D	N10	E21	.358	17098	3.0	4D	-F		V	1110			D
GRP87327	01	1117+3	1123+2	1219D	N19	E74	.954	17093	7.0	62	1N				180		EHK
KHAR	01	1117E	1125	1219D	N19	E75	.959	17093	7.1	62D	1N		P	1125	170		EHK
KANZ	01	1119	1123	1128D	N19	E72	.944	17093	6.9	9D	-N	2					
CATA	01	1120	1125	1145D	N20	E74	.954	17093	7.0	25D	2F	2	P	1125	197		
328 KHAR	01	1127E	1127	1145D	S07	E16	.364	17089	2.7	18D	-F		P	1132	180	1.9	
	01	1129	1134	NO FLARE PATROL													
329 KHAR	01	1206E	1216	1226D	N10	W56	.823	17081	28.3	20D	-F		P	1216	50	1.0	E
330 KHAR	01	1210E	1216	1220D	N10	E22	.373	17098	3.2	10D	-F		P	1216	40	.4	E

H - ALPHA SOLAR FLARES

SEPTEMBER 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Cmd	Hale Cen Dist	Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks	
331	KHAR	01	1224E	1225	1233D	N11	E15	.264	17098	2.6	9D	-N	P	1226	50	.5	D
332	HUAN	01	1225		1227D	S07	E18	.389	17089	2.9	2D	-F	1 P	1226	60	.7	
333	KHAR	01	1237E	1237	1242D	N11	E15	.264	17098	2.7	5D	-F	P	1237			E
GRP87334	KHAR	01	1250E	1259+3	1318	N20	E47	.734	17092	5.1	28	-N			100	1.5	H
	ATHN	01	1250E	1259	1314D	N21	E48	.747	17092	5.1	24D	-N	P	1259	110	1.7	H
		01	1301E	1302	1318	N20	E47	.734	17092	5.1	17D	-B	3 V	1302	95	1.5	
335	KHAR	01	1253E	1254	1301D	N11	E15	.264	17098	2.7	8D	-N	P	1256			D
336	KHAR	01	1304E		1307D	N10	E22	.373	17098	3.2	3D	-F	P	1304	40	.4	D
GRP87337		01	1308>9	1316	1340	N10	W56	.823	17081	28.3	33	-F					D
	KANZ	01	1308E	1316	1336	N10	W56	.823	17081	28.3	28D	-N	2				
	HUAN	01	1334	1340	1345	N10	W56	.823	17081	28.4	11	-F	1 C	1340	20	.4	D
GRP87338	HOLL	01	1347+0	1347+1	1402	S06	E18	.379	17089	2.9	15	-N					L
	KANZ	01	1347	1348	1409	S06	E16	.354	17089	2.8	22	-N	3 C		104		L
		01	1347	1347	1355	S06	E20	.405	17089	3.1	8	-N	2				
GRP87339		01	1403+0	1409	1416	N10	E20	.342	17098	3.1	33	-F					E
	KHAR	01	1403E	1416	1443D	N10	E22	.373	17098	3.2	40D	-F	P	1416	60	.7	E
	HOLL	01	1403	1409	1429	N11	E18	.312	17098	2.9	26	-N	3 C		52		
GRP87340		01	1411	1411	1426	S09	E16	.386	17089	2.8	128	-N					
	HOLL	01	1411	1411	1619	S06	E15	.341	17089	2.7	128	-N	3 C		34		
	KHAR	01	1413E	1413	1416D	S11	E19	.442	17089	3.0	3D	-N	P				
	KHAR	01	1416E	1426	1443D	S15	E15	.449	17089	2.7	27D	-F	P				D
341	HUAN	01	1431		1446D	S05	E25	.466	17100	3.5	15D	-N	1 P	1436	100	1.2	E
342	HUAN	01	1523		1526D	S15	W60	.895	17078	28.1	3D	-F	1 P				D
343	HOLL	01	1536	1536	1616	N11	E17	.296	17098	2.9	40	-N	3 C		35		
GRP87344	HOLL	01	1618+3	1621+1	1702	N10	E13	.228	17098	2.7	44	-N			50	.5	
	BIGB	01	1618	1621	1700	N11	E17	.296	17098	3.0	42	-N	3 C		67		
		01	1621	1622	1704	N10	E10	.178	17098	2.4	43	-N	3 C	1622	40	.4	
345	HOLL	01	1725	1725	1744	N11	E18	.312	17098	3.1	19	-F	3 C		31		
346	HOLL	01	1725	1725	1731	S06	E19	.392	17089	3.2	6	-N	3 C		73		
347	BIGB	01	1745	1753	1754	N27	E86	.993	17096	8.2	9	2N	3 C	1754	90		
GRP87348	PALE	01	1839+0	1839+1	1844	N09	W56	.823	17081	28.6	5	-F			35	.6	
	HOLL	01	1839	1839	1844	N09	W57	.833	17081	28.5	5	-F	3 C		35		
		01	1839	1840	1844	N09	W56	.823	17081	28.6	5	-F	3 C		27		
GRP87349	PALE	01	1855+0	1856+0	1921	S09	E14	.364	17089	2.8	26	-F			50	.5	
	HOLL	01	1855	1856	1927	S09	E14	.364	17089	2.8	32	-F	3 C		55		
		01	1855	1856	1914	S10	E15	.387	17089	2.9	19	-N	3 C		52		
350	HOLL	01	1926	1930	1938	N11	E16	.280	17098	3.0	12	-N	3 C		44		
GRP87351	HOLL	01	1929+3	1937+0	2006	S06	E27	.500	17100	3.8	37	-N			160	1.8	D
	PALE	01	1929	1937	2006	S06	E27	.500	17100	3.8	37	-N	3 C		174		
	BIGB	01	1931	1937	2014	S05	E27	.494	17100	3.8	12	-F	3 C		157		D
		01	1932	1937	2014	S07	E24	.558	17100	3.6	42	-B	3 C	1937	160	1.8	
GRP87352		01	1939+1	1943	1953	N11	E17	.296	17098	3.1	16	-F					D
	HOLL	01	1939	1953	1958	N11	E17	.296	17098	3.1	19	-N	3 C		37		
	PALE	01	1940	1943	1952	N11	E17	.296	17098	3.1	12	-F	3 C		30		D

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
353	HOLL	01	2014	2022	2026	S08	E12	.331 17089	2.7	12	-F	3 C		43		
354	PALE	01	2024	2026	2029	S16	W61	.904 17078	28.3	5	-F	3 C		18		
355	PALE	01	2049	2049	2107	N12	E16	.284 17098	3.1	18	-F	3 C		24		
356	CULG	01	2143	2145	2152	S04	E07	.228 17089	2.4	9	-F	C	2145	80	.8	
GRP87357		01	2156+7	2206+0	2216	N17	E18	.344 17098	3.3	20	-F					
	CULG	01	2156	2206	2220	N17	E19	.358 17098	3.3	24	-F	C	2206	60	.6	
	PALE	01	2203	2206	2211	N18	E18	.352 17098	3.3	8	-F	3 C		24		
358	CULG	01	2206	2210	2222	S12	E08	.355 17089	2.5	16	-F	C	2210	50	.5	
359	CULG	01	2212	2224	2228U	S13	W64	.918 17078	28.1	16D	-F	C	2224	60	1.5	
360	HOLL	01	2232	2233	2243	N16	E84	.991 17095	8.2	11	-F	3 C				
361	HOLL	01	2342	2348	0000	N16	E83	.989 17095	8.2	18	-F	3 C				
362	HOLL	02	0005	0007	0014	N16	E83	.989 17095	8.2	9	-F	3 C				
GRP87363		02	0103+9	0111+3 0143+3	0153	S07	E09	.289 17089	2.7	50	-N			50	.5	EK
	CULG	02	0103	0111	0158	S10	E07	.318 17089	2.6	55	-F	C	0111	70	.7	
	PURP	02	0110	0114	0140	S07	E09	.289 17089	2.7	30	-N	C				E
	LEAR	02	0112	0112	0120	S07	E10	.298 17089	2.8	8	-N	3 C		34		
	PEKG	02	0118E	0121	0158	S07	E10	.298 17089	2.8	40D	-F	P	0118	46	.5	EK
	PEKG	02	0118E	0146	0158	S07	E09	.289 17089	2.7	40D	-N	P	0146	59	.6	E
	PALE	02	0141	0143	0147	S05	E11	.283 17089	2.9	6	-F	3 C		34		
	LEAR	02	0142	0144	0155	S07	E10	.298 17089	2.8	13	-F	3 C		23		
GRP87364		02	0103+7	0107 0121	0140	N10	E13	.228 17098	3.0	37	-N					H
	LEAR	02	0103	0107	0118	N10	E13	.228 17098	3.0	15	-F	* C		53		
	PURP	02	0110	0121	0140	N10	E13	.228 17098	3.0	30	-N	* C				E
	PEKG	02	0118E	0147	0152	N12	E07	.146 17098	2.6	34D	-N	* C	0146	13	.1	DH
GRP87365		02	0202	0208+0 0249+2	0312	S05	E11	.283 17089	2.9	70	-N					EK
	PURP	02	0202	0208	0321	S07	E12	.318 17089	3.0	79	1N	C				E
	PEKG	02	0208E	0208	0313	S05	E11	.283 17089	2.9	65D	-F	P	0208	76	.8	EK
	PEKG	02	0208E	0251	0313	S05	E09	.261 17089	2.8	65D	-N	* C	0251	118	1.3	E
	LEAR	02	0249	0249	0304	S06	E11	.295 17089	2.9	15	-N	* C		28		
	PALE	02	0249	0301	0311	S05	E10	.272 17089	2.9	22	-F	3 C		34		
GRP87366		02	0205+1	0209+2	0216	N14	E88	.998 17095	8.7	11	-F			30		
	CULG	02	0205	0209	0219	N12	E90	1.000 17095	8.8	14	-F	C	0209	40		
	PALE	02	0206	0211	0213	N17	E86	.995 17095	8.5	7	-F	3 C		20		
GRP87367		02	0215E	0233+1 0257	0300	N10	E14	.244 17098	3.1	45	-F			90	.9	E
	CULG	02	0215U	0234	0300U	N10	E15	.260 17098	3.2	45D	-F	C	0234	100	1.0	T
	PEKG	02	0233E	0233	0259	N10	E12	.211 17098	3.0	26D	-N	C	0233	92	1.0	E
	PEKG	02	0248	0257	0259	N10	E13	.228 17098	3.1	11	-F	C	0257	25	.3	E
GRP87368		02	0229+9	0233 0244+0	0251	S26	W58	.909 17083	28.8	22	-F					E
	PEKG	02	0229	0233	0251	S27	W59	.917 17083	28.7	22	-F	* C	0233	63		E
	CULG	02	0239	0244	0255	S25	W58	.906 17083	28.8	16	-F	* C	0244	80	1.7	
	LEAR	02	0244	0244	0247	S26	W57	.902 17083	28.8	3	-F	* C		26		
369	CULG	02	0236	0247	0255	N28	E83	.986 17096	8.3	19	?F	C	0247	60		
				IMP.1 NO : PURP	PEKG											
370	PEKG	02	0248	0301	0308	N14	E85	.993 17095	8.5	20	-F	C	0301	17		D
371	PEKG	02	0256	0257	0258	S25	E85	1.000 17103	8.5	2	-F	C	0257	8		D
372	PEKG	02	0314	0324	0335	N14	E90	1.000 17095	8.9	21	-F	C	0324	13		D

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Cmd	Hale Cen Dist	Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
373	PEKG	02 0314	0319	0330	S14	W67	.938	17078	28.1	16	-N	C	0319	29		E
374	CULG	02 0415	0420	0429	N28	E81	.981	17096	8.3	14	?F	C	0420	70		
			IMP.1 NO : PURP TACH PEKG													
GRP87375	02	0421+8	0443+7	0545	N11	E10	.184	17098	2.9	84	1N			310	3.2	IJK
	CULG	02 0414U	0450	0611	N10	E10	.178	17098	2.9	117D	1N	* C	0450	380	3.8	JFKT
	PEKG	02 0421	0443	0545D	N11	E11	.199	17098	3.0	84D	1N	* C	0443	244	2.6	F
	PURP	02 0429	0443	0515	N10	E12	.211	17098	3.1	46	1N	* C				E
	ABST	02 0457E	0457	0518	N12	E10	.190	17098	3.0	21D	1N	* P	0457	262	2.7	EJ
	ABST	02 0544	0550	0553	N12	E09	.175	17098	2.9	9	-F	* C	0550	87	.9	DJ
	ABST	02 0552	0603	0612	N11	E12	.215	17098	3.1	20	-N	* C	0603	87	.9	DJ
376	LEAR	02 0434	0434	0444	N20	E38	.629	17092	5.0	10	-F	3 C		28		
GRP87377	02	0519+0	0520+3	0529	S09	E13	.354	17089	3.2	10	-F					DJ
	ABST	02 0502	0506	0521	S08	E06	.281	17089	2.7	19	-F	C	0506	79	.9	DJ
	PURP	02 0519	0520	0529	S10	E13	.367	17089	3.2	10	-N	C				D
	ABST	02 0519	0523	0540	S09	E13	.354	17089	3.2	21	-F	P	0523	87	1.0	DJ
GRP87378	02	0619+7	0629+2	0636	N10	E12	.211	17098	3.2	17	-N					EJ
	PURP	02 0619	0629	0635	N10	E12	.211	17098	3.2	16	-B	* C				E
	ABST	02 0626	0631	0637	N10	E12	.211	17098	3.2	11	-F	* P	0631	140	1.5	EJ
GRP87379	02	0619>9	0656+9	0738	S06	E07	.258	17089	2.8	79	1N			250	2.6	HJK
			0713+5													
	CULG	02 0619	0626	0637	S07	E08	.280	17089	2.9	18	-F	C	0626	100	1.0	
	ABST	02 0629	0657	0740	S06	E06	.250	17089	2.7	71	1N	C	0657	323	3.4	FJK
	CULG	02 0632	0703	0705D	S07	E06	.266	17089	2.7	33D	1N	C	0703	230	2.3	
	KHAR	02 0637E	0658	0743D	S07	E06	.266	17089	2.7	66D	1N	P	0656	190	2.1	EH
	CATA	02 0640	0705	0735	S06	E07	.123	17089	2.8	55	1F	2 C	0705	281	3.0	
	KANZ	02 0641	0657	0711D	S06	E07	.258	17089	2.8	30D	-B	2 C				
	LEAR	02 0641	0656	0736	S07	E07	.273	17089	2.8	55	-B	3 C		191		D
	PURP	02 0652	0657	0657D	S06	E08	.266	17089	2.9	5D	2B	P	0657	566	5.8	
	WEND	02 0700E		0739D	S06	E06	.250	17089	2.7	39D	-B	P	0708	162	1.7	
	KHAR	02 0713E	0713	0723D	S10	E10	.340	17089	3.1	10D	-F	P	0713	80	.9	E
	ABST	02 0714	0718	0730	S09	E09	.318	17089	3.0	16	-F	C	0718	175	1.9	EJ
380	KHAR	02 0642E	0646	0713D	S14	E69	.949		7.5	31D	-F	P	0646	50		E
381	KHAR	02 0642E	0646	0649D	N10	E09	.162	17098	3.0	7D	-F	P	0646	60	.6	
GRP87382	02	0645	0648+1	0659	N12	E81	.984	17095	8.4	14	-F					D
	CULG	02 0645	0648	0659	N12	E79	.977	17095	8.2	14	-F	C	0648	40		
	KHAR	02 0646E	0649	0656D	N12	E83	.990	17095	8.5	10D	-F	P				D
383	LEAR	02 0650	0651	0659	N22	W41	.671	17085	30.2	9	-F	3 C		21		
GRP87384	02	0705	0708	0715	N10	E11	.195	17098	3.1	10	-F			70	.7	J
	ABST	02 0705	0708	0715	N10	E12	.211	17098	3.2	10	-F	C	0708	79	.8	DJ
	KHAR	02 0706E		0714D	N10	E11	.195	17098	3.1	8D	-F	P	0706	60	.6	E
385	ABST	02 0715	0717	0724	N10	E10	.178	17098	3.1	9	-N	C	0717	96	1.0	DJ
386	KHAR	02 0740E	0740	0743D	N10	E12	.211	17098	3.2	3D	-F	P				D
GRP87387	02	0802>9	0809	0849	N10	E09	.162	17098	3.0	47	-F			150	1.5	EJU
			0836+4													
	KHAR	02 0802E	0802	0829D	N10	E12	.211	17098	3.2	27D	-F	* P				D
	KHAR	02 0806E	0809	0812D	N10	E17	.293	17098	3.6	6D	-F	P	0809	130	1.3	E
	KHAR	02 0826E	0839	0849D	N10	E19	.325	17098	3.8	23D	-F	* P	0839	120	1.2	E
	ABST	02 0833	0836	0902D	N11	E09	.168	17098	3.0	29D	-F	* P	0836	166	1.7	EJ
	PEKG	02 0835E	0840	0844	N10	E09	.162	17098	3.0	9D	-N	* P	0840	164	1.7	FU
388	KHAR	02 0806E	0812	0829D	N13	E39	.628	17094	5.3	23D	-F	P	0812	80	1.1	E
389	ABST	02 0820E	0821	0830D	N23	E34	.592	17092	4.9	10D	-F	P	0821	87	1.1	DJ
390	ABST	02 0859	0902	0906	N20	E34	.578	17092	4.9	7	-F	P	0902	87	1.1	DJ
391	KHAR	02 0935E	0938	0953D	N14	E85	.993	17095	8.8	18D	-N	P				D

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Cmd	Hale Cen Dist	Hale Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP87392	02	0956E		1002	S06	E05	.244	17089	2.8	6	-F			80	.8	J
PEKG	02	0956E	0956	0956D	S05	E03	.217	17089	2.6		-F	P	0956	84	.9	E
KHAR	02	0956E		0956D	S06	E05	.244	17089	2.8		-F	P				
ABST	02	0957E	0957	1002	S06	E05	.244	17089	2.8	5D	-F	P	0957	87	.9	DJ
GRP87393	02	1015+4	1017+3	1031	S07	E03	.251	17089	2.7	16	-F			50	.5	E
CATA	02	1015	1020	1025D	S08	E03	.054	17089	2.7	10D	-F	2 P	1020	56	.6	
KHAR	02	1017E	1017	1033D	S07	E03	.251	17089	2.7	16D	-F	** P	1024	70	.7	E
WEND	02	1019		1031D	S07	E03	.251	17089	2.7	12D	-F	* P	1021	30	.3	
YUNN	02	1020E	1020	1025	S08	E04	.271	17089	2.7	5D	-F	* P		64	.7	
394 KHAR	02	1017E	1024	1031D	N19	E60	.860	17093	6.9	14D	-F	P	1024	50	1.0	D
	02	1041	1143	NO FLARE PATROL												
395 WEND	02	1144E		1216	S06	E04	.238	17089	2.8	32D	-N	C	1151	106	1.1	
396 WEND	02	1200	1204	1210	S27	E73	.979	17103	8.0	10	-N	C	1204	50		
397 WEND	02	1214	1215	1221	N10	E10	.178	17098	3.3	7	-N	C	1215	62	.7	
GRP87398	02	1311+1	1313	1349	S06	E03	.234	17089	2.8	38	-N					
			1320													
BERN	02	1311	1313	1337	S07	E05	.260	17089	2.9	26	1N			200		
WEND	02	1312	1320	1335D	S06	E03	.234	17089	2.8	23D	-N	C	1320	118	1.2	
KANZ	02	1334E		1337D	S06	E04	.238	17089	2.9	3D	-N	1				
HOLL	02	1337E	1338U	1400	S07	E03	.251	17089	2.8	23D	-F	3 C		77		
399 HOLL	02	1349	1406	1421	N16	E76	.964	17095	8.3	32	-F	3 C				
400 HOLL	02	1407	1408	1424	N27	E78	.971	17096	8.4	17	-F	3 C		14		
401 HOLL	02	1423	1439	1505	S06	E02	.231	17089	2.7	42	-N	3 C		55		
402 HOLL	02	1552	1557	1612	N25	E72	.944	17096	8.1	20	-N	3 C		39		
403 HOLL	02	1605	1605	1611	S09	E03	.284	17089	2.9	6	-B	3 C		57		
GRP87404	02	1630+1	1631+4	1714	N11	E04	.096	17098	3.0	44	-B			110	1.1	
HOLL	02	1630	1631	1659	N11	E04	.096	17098	3.0	29	-B	3 C		85		D
BIGB	02	1631	1635	1736	N10	E05	.099	17098	3.1	65	-B	3 C	1635	110	1.1	
HUAN	02	1631		1657D	N11	E05	.109	17098	3.1	26D	-N	1 P	1633	115	1.2	E
WEND	02	1633E		1714	N11	E04	.096	17098	3.0	41D	1N	C	1647	218	2.3	
GRP87405	02	1653>9	1655	1727	N14	E75	.960	17095	8.3	34	-F					
			1726													
WEND	02	1653	1655	1716	N14	E75	.960	17095	8.3	23	-F	C	1655	32		
HOLL	02	1713	1726	1737	N15	E76	.964	17095	8.4	24	-N	3 C				
406 HOLL	02	1744	1747	1750	N10	E02	.060	17098	2.9	6	-F	3 C		25		
407 HOLL	02	1757	1757	1804	S10	E04	.303	17089	3.0	7	-F	3 C		24		
GRP87408	02	1805+1	1806+4	1842	N11	E05	.109	17098	3.1	37	-B			100	1.0	
HOLL	02	1805	1806	1842	N11	E05	.109	17098	3.1	37	-B	3 C		94		
PALE	02	1806	1810	1823	N11	E05	.109	17098	3.1	17	-N	3 C		122		
BIGB	02	1806	1809	1847	N10	E05	.099	17098	3.1	41	-B	3 C	1809	80	.8	
409 HOLL	02	1812	1812	1821	S08	W01	.263	17089	2.7	9	-N	3 C		24		
410 HOLL	02	1827	1830	1850	S08	W01	.263	17089	2.7	23	-B	3 C		57		
411 HOLL	02	1837	1839	1902	N28	E73	.949	17096	8.3	25	-F	3 C		17		
412 HOLL	02	1933	1940	1949	N15	E71	.939	17095	8.1	16	-N	3 C		21		
413 HOLL	02	2155	2210	2235	S08	W03	.267	17089	2.7	40	-F	3 C		41		
414 HOLL	02	2228	2231	2244	N11	E00	.066	17098	2.9	16	-N	3 C		54		
415 PALE	02	2353	2401	0009	N23	E29	.530	17092	5.2	16	-F	3 C		25		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Cmd	Hale Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
416	CULG	03 0021	0023	0028	N25	E62	.880	17096	7.7	7	-F	C	0023	60	1.2	
GRP87417	03 0059+1	0101+1	0106	S08	W48	.768	17082	30.4	7	-F						
	CULG	03 0059	0101	0107	S08	W49	.779	17082	30.4	8	-F	C	0101	90	1.4	
	LEAR	03 0100	0102	0104	S09	W47	.761	17082	30.5	4	-F	3 C		18		
418	CULG	03 0101	0103	0140	N24	E29	.537	17092	5.2	39	-N	C	0103	120	1.4	K
GRP87419	03 0136+1	0138+1	0153	N12	W03	.098	17098	2.8	17	-N				90	.9	E
	BIGB	03 0136	0138	0147D	N12	W04	.108	17098	2.8	11D	-N	3 P	0138	60	.6	
	CULG	03 0136	0138	0154	N14	W03	.129	17098	2.8	18	-N	C	0138	120	1.2	
	LEAR	03 0137	0139	0151	N11	W03	.084	17098	2.8	14	-N	3 C		92		
	PEKG	03 0137E	0138	0142D	N13	W05	.132	17098	2.7	5D	-N	P	0138	109	1.1	E
420	PALE	03 0202E	0203U	0207	S05	W02	.214	17089	2.9	5D	-F	3 C		20		
421	LEAR	03 0211	0212	0223	N20	E29	.513	17092	5.3	12	-F	3 C		23		
GRP87422	03 0300>9	0313+6	0358	N15	E71	.939	17095	8.4	58	-F						
		0351														
	CULG	03 0300	0313	0400U	N15	E70	.933	17095	8.4	60D	1F	C	0313	120		
	LEAR	03 0317	0319	0332	N16	E73	.950	17095	8.6	15	-F	3 C		31		
	LEAR	03 0351	0351	0356	N15	E72	.944	17095	8.6	5	-F	3 C		12		
423	CULG	03 0325	0334	0411U	N11	E41	.651	17101	6.2	46D	?F	C	0334	160	2.1	
			IMP.1	NO :	PURP	MITK	TACH									
424	CULG	03 0336	0339	0351	N25	E61	.872	17096	7.7	15	-F	C	0339	80	1.6	
GRP87425	03 0350+4	0408>9	0456	S06	W06	.251	17089	2.7	66	1B						JU
		0424														
	CULG	03 0350	0418	0508	S06	W07	.258	17089	2.6	78	2N	C	0418	740	7.4	UF
	LEAR	03 0353	0414	0458	S07	W03	.251	17089	2.9	65	1B	3 C		290		D
	MITK	03 0354		0445	S07	W07	.273	17089	2.6	51	1N	C	0414	260	2.8	F
	TACH	03 0403	0409	0454	S06	W06	.251	17089	2.7	51	1B	C	0409	327	3.5	E
	PURP	03 0403	0408	0444	S06	W06	.251	17089	2.7	41	2N	C	0408	679	7.0	U
	YUNN	03 0423E	0424	0429D	S06	W06	.251	17089	2.7	6D	2B	P		595	6.4	
	ABST	03 0458E	0458	0516D	S08	W04	.271	17089	2.9	18D	1F	P	0458	201	2.1	EJ
426	CULG	03 0410	0437	0450	N25	E60	.864	17096	7.7	40	-F	C	0437	90	1.8	K
GRP87427	03 0422+4	0429+0	0446	N20	E26	.473	17092	5.1	24	-N						
	CULG	03 0422	0429	0449	N21	E25	.467	17092	5.1	27	1N	C	0429	240	2.8	
	LEAR	03 0426	0429	0442	N20	E27	.487	17092	5.2	16	-F	3 C		32		
GRP87428	03 0509+3	0514+6	0553	N11	W02	.074	17098	3.1	44	1N				230	2.3	J
		0527														
	CULG	03 0509	0520	0610	N11	W03	.084	17098	3.0	61	1N	C	0520	300	3.0	
	LEAR	03 0510	0514	0515D	N11	W05	.108	17098	2.8	5D	-B	3 C		165		D
	PURP	03 0510	0527	0550	N11	W01	.068	17098	3.1	40	1N	C				
	ABST	03 0510	0516	0602	N09	W02	.046	17098	3.1	52	1N	C	0516	236	2.4	FJ
	TACH	03 0511	0517	0548	N12	W03	.098	17098	3.0	37	1N	C	0517	246	2.6	D
	MITK	03 0512	0516	0543	N12	W02	.090	17098	3.1	31	-B	C	0516			E
	PEKG	03 0514E	0515	0515D	N11	W02	.074	17098	3.1	1D	1B	P	0515	210	2.2	F
GRP87429	03 0533+2	0535+2	0542	N24	E59	.855	17096	7.7	9	1F				110	2.2	D
	CULG	03 0533	0535	0543	N25	E60	.864	17096	7.7	10	1N	C	0535	130	2.6	
	ABST	03 0535	0537	0541	N24	E59	.855	17096	7.7	6	-F	C	0537	87	1.6	D
430	ABST	03 0545	0547	0555	N11	E44	.689	17101	6.5	10	-F	C	0547	87	1.2	D
GRP87431	03 0633+1	0635+2	0645D	S07	W08	.281	17089	2.7	12	-F						EJ
	ABST	03 0633	0635	0715	S08	W07	.288	17089	2.7	42	-N	C	0635	131	1.4	EJ
	LEAR	03 0634	0637	0645	S07	W09	.289	17089	2.6	11	-F	3 C		45		
432	LEAR	03 0651	0655	0659	N11	W06	.122	17098	2.8	8	-F	3 C		23		
GRP87433	03 0712+1	0713+2	0722	N11	W05	.108	17098	2.9	10	-F						
	YUNN	03 0712	0715	0720	N12	W04	.108	17098	3.0	8	-F	C		80	.8	
	LEAR	03 0713	0713	0723	N11	W06	.122	17098	2.9	10	-F	3 C		22		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Cmd	Dist	Hale Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP87434	03	0740+2	0741+2 0750+6	0806	N11	W03	.084	17098	3.1	26	-N			130	1.3	EJK
ABST	03	0645	0741	0817	N11	W04	.095	17098	3.0	92	1N	C	0741	218	2.3	EJK
MITK	03	0740	0742	0807D	N12	W03	.098	17098	3.1	27D	-N	C	0742			E
YUNN	03	0741	0743	0755	N11	W03	.084	17098	3.1	14	1N	C		274	2.8	
PURP	03	0741	0743	0755	N11	W02	.074	17098	3.2	14	1N	C				
LEAR	03	0741	0743	0815	N10	W03	.071	17098	3.1	34	-B	3 C		86		D
WEND	03	0742	0752	0809	N12	W03	.098	17098	3.1	27	-N	C	0752	150	1.6	
ABST	03	0749	0751	0758	N14	W07	.168	17098	2.8	9	-N	C	0751	87	.9	DJ
CATA	03	0750E	0750	0755D	N11	W03	.084	17098	3.1	5D	-F	2 P	0750	169	1.7	
BERN	03	0753	0756	0804	N10	W06	.114	17098	2.9	11	-N			120		
435 ABST	03	0827	0828	0832	S07	W05	.260	17089	3.0	5	-N	C	0828	87	.9	DJ
GRP87436	03	0843+2	0845+1	0858	S07	W09	.289	17089	2.7	15	-F					EJ
ABST	03	0843	0846	0904	S07	W10	.299	17089	2.6	21	1F	C	0846	192	2.1	EJ
LEAR	03	0845	0845	0852	S08	W08	.295	17089	2.8	7	-F	3 C		22		
437 ABST	03	0905	0907	0922	N11	W05	.108	17098	3.0	17	-N	C	0907	175	1.8	EJ
438 ABST	03	0958E	0959	1000D	N21	E24	.454	17092	5.2	2D	-F	P	0959	96	1.1	EJ
439 YUNN	03	1030	1032	1037	N12	W05	.120	17098	3.1	7	-N	C		193	2.0	
440 KANZ	03	1042E	1048	1107	N11	W05	.108	17098	3.1	25D	-N	1				
441 KANZ	03	1044	1048	1100	S05	W07	.243	17089	2.9	16	-F	1				
GRP87442	03	1207+0	1208	1210	N11	W07	.137	17098	3.0	3	-F					
WEND	03	1207	1208	1212	N12	W07	.146	17098	3.0	5	-F	C	1208	40	.4	
KANZ	03	1207		1207	N11	W08	.152	17098	2.9		-F	2				
GRP87443	03	1209+6	1216+0	1228	S06	W11	.295	17089	2.7	19	-F					
WEND	03	1209	1216	1232	S07	W11	.308	17089	2.7	23	-N	C	1216	38	.4	
KANZ	03	1215	1216	1223	S06	W12	.306	17089	2.6	8	-F	2				
444 WEND	03	1255	1302	1310	S06	W10	.285	17089	2.8	15	-F	C	1302	112	1.2	
GRP87445	03	1338+9	1354+3	1408	N22	E18	.387	17092	4.9	30	-N					
BERN	03	1338	1354	1401	N22	E19	.399	17092	5.0	23	1N			250		
HOLL	03	1356	1357	1414	N22	E17	.376	17092	4.9	18	-N	3 C		66		
GRP87446	03	1347+9	1356+0	1414	N10	W08	.146	17098	3.0	27	-N			80	.8	
BERN	03	1347	1356	1410	N10	W09	.162	17098	2.9	23	-N			80		
HOLL	03	1356	1356	1417	N10	W08	.146	17098	3.0	21	-N	3 C		88		
447 HOLL	03	1356	1401	1431	N15	E60	.859	17095	8.1	35	1N	3 C		153		
448 HOLL	03	1421	1430	1452	S08	W12	.331	17089	2.7	31	-N	3 C		83		
	03	1422	1439	NO FLARE PATROL												
449 HOLL	03	1508	1517	1528	S07	W12	.319	17089	2.7	20	-F	3 C		61		
450 HOLL	03	1627	1648	1803	S07	W14	.341	17089	2.6	96	-N	3 C		128		
GRP87451	03	1825+2	1827+1	1851	S06	W11	.295	17089	2.9	26	-F			60	.6	D
HOLL	03	1825	1827	1905	S07	W12	.319	17089	2.9	40	-N	3 C		93		
PALE	03	1827	1828	1836	S06	W11	.295	17089	2.9	9	-F	3 C		41		D
GRP87452	03	1906+9	1927+3 1938	2007	S07	W14	.341	17089	2.7	61	-B					
HOLL	03	1906	1930	2030	S08	W14	.353	17089	2.7	84	1B	3 C		231		D
BIGB	03	1925	1927	2020	S07	W14	.341	17089	2.8	55	-B	3 C	1927	100	1.1	
PALE	03	1936E	1938U	1953	S07	W15	.353	17089	2.7	17D	-F	3 C		141		
HUAN	03	1945E		1954D	S08	W16	.375	17089	2.6	9D	-F	1 P				E
GRP87453	03	2046	2056+2	2207	S07	W15	.353	17089	2.7	81	-N			90	1.0	
BIGB	03	2046	2056	2207	S07	W13	.330	17089	2.9	81	-B	3 C	2056	120	1.3	
PALE	03	2053E	2058	2131	S08	W15	.364	17089	2.7	38D	-N	3 C		59		
CULG	03	2115E	2115U	2212	S06	W15	.342	17089	2.8	57D	-N	C	2115	100	1.0	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Imp	Obs Type	Area Measurement			Remarks	
							Dist	Plage Region	CMP				Time (UT)	Appar (Disk)	Corr (Sq Deg)		
GRP87454	03	2256	2258	2311D	N23	E56	.829	17096	8.2	15	1F					E	
CULG	03	2256	2258U	2346	N23	E58	.846	17096	8.3	50	1F	C	2258	130	2.3		
PURP	03	2300E	2300	2311	N23	E54	.810	17096	8.0	11D	-N	C				E	
GRP87455	03	2259	2329	0003	S07	W18	.389	17089	2.6	64	1N						
			2339														
CULG	03	2259	2329U	0053	S07	W18	.389	17089	2.6	114	1F	C	2329	340	3.7	F	
LEAR	03	2337E	2339	0002	S07	W18	.389	17089	2.6	25D	-N	3 C		112			
PEKG	03	2341E	2348	0003	S07	W17	.377	17089	2.7	22D	-N	P	2348	176	1.9	E	
456 CULG	03	2322	2324	2344	N13	W17	.304	17098	2.7	22	-N	C	2324	120	1.3		
GRP87457	03	2350+9	2358+1	0017	N21	E28	.506	17092	6.1	27	-N				60	.7	
LEAR	03	2350	2358	0011	N21	E31	.544	17092	6.3	21	-N	3 C			65		
HOLL	03	2359	2359	0023	N22	E25	.474	17092	5.9	24	-N	3 C			50		
GRP87458	04	0030>9	0056+3	0156	N11	W13	.231	17098	3.0	86	1N						FK
			0110>9														
MITK	04	0030	0056	0125	N10	W10	.178	17098	3.3	55	-N	C	0056				
LEAR	04	0030	0032	0052	N11	W14	.247	17098	3.0	22	-N	3 C		40			
CULG	04	0032U	0124U	0241	N13	W15	.273	17098	2.9	129D	2N	C	0124	520	5.4	FK	
PURP	04	0053	0119	0200	N12	W14	.252	17098	3.0	67	1N	C					
LEAR	04	0053	0148	0228	N11	W14	.247	17098	3.0	95	1B	3 C		288		D	
BIGB	04	0054	0059	0139D	N10	W04	.084	17098	3.7	45D	-B	3 P	0059	150	1.6		
YUNN	04	0110E	0110	0115	N11	W14	.247	17098	3.0	5D	1F	P	0110	241	2.6		
PEKG	04	0110	0111	0205D	N11	W14	.247	17098	3.0	55D	1N	P	0111	336	3.6	F	
PALE	04	0130E	0146	0201	N10	W16	.277	17098	2.9	31D	1F	3 C		196			
459 PALE	04	0130E	0133U	0145	S07	W17	.377	17089	2.8	15D	-F	3 C		139			
GRP87460	04	0152+3	0201+3	0316	S07	W17	.377	17089	2.8	84	2B			690	7.4	FUW	
			0210+5														
LEAR	04	0152	0210	0329	S07	W18	.389	17089	2.7	97	2B	3 C		714			
MITK	04	0153	0201	0308	S08	W17	.387	17089	2.8	75	1B	C	0201	400	4.5	F	
PEKG	04	0154	0201	0303	S07	W18	.389	17089	2.7	69	2B	C	0201	715	8.0	F	
PURP	04	0154	0204	0310	S07	W18	.389	17089	2.7	76	2B	C	0200	1094	11.8	W	
CULG	04	0155	0215	0345	S08	W18	.399	17089	2.7	110	2B	C	0215	500	5.5	FU	
PALE	04	0156E	0201U	0316D	S09	W16	.387	17089	2.9	80D	2B	3 C		668			
YUNN	04	0201E	0201	0217D	S06	W16	.354	17089	2.9	16D	2B	P		675	7.4		
461 LEAR	04	0155	0204	0207	N21	E15	.342	17092	5.2	12	-F	3 C		37			
GRP87462	04	0156+2	0200+2	0213	S08	W05	.276	17100	3.7	17	-N			110	1.1	E	
PEKG	04	0156	0202	0213	S10	W05	.308	17100	3.7	17	-N	C	0202	126	1.4	E	
PURP	04	0157	0201	0204	S10	W06	.313	17100	3.6	7	1B	C					
LEAR	04	0158	0200	0232	S05	W05	.228	17100	3.7	34	-N	3 C		111			
PALE	04	0201E	0201U	0213	S06	W04	.239	17100	3.8	12D	-F	3 C		23			
GRP87463	04	0241+1	0243+3	0259	S25	E51	.859	17103	7.9	18	-N			70	1.3	E	
CULG	04	0241	0243	0258	S25	E51	.859	17103	7.9	17	-N	C	0243	90	1.7		
PURP	04	0241	0244	0259	S25	E51	.859	17103	7.9	18	1N	C					
LEAR	04	0242	0245	0307	S26	E51	.863	17103	7.9	25	-N	3 C		85			
PEKG	04	0242	0246	0252	S24	E50	.847	17103	7.9	10	-F	P	0246	42	.8	E	
GRP87464	04	0245+3	0251+3	0328	N11	W15	.264	17098	3.0	43	-N						
			0322														
CULG	04	0245	0322	0351	N12	W18	.315	17098	2.8	66	-N	C	0322	160	1.7	F	
PURP	04	0247	0254	0328	N11	W13	.231	17098	3.1	41	1N	C				E	
LEAR	04	0248	0251	0312	N11	W15	.264	17098	3.0	24	-B	3 C		67			
GRP87465	04	0253+8	0302+0	0312	N13	E57	.832	17095	8.4	19	-F			40	.7		
LEAR	04	0253	0302	0311	N14	E57	.832	17095	8.4	18	-N	3 C		39			
CULG	04	0301	0302	0313	N12	E57	.832	17095	8.4	12	-F	C	0302	40	.7		
466 CULG	04	0307	0310	0315	S11	E53	.827		8.1	8	-F	C	0310	60	1.1	G	
GRP87467	04	0356+9	0412+2	0423	N19	E12	.285	17092	5.1	27	-F			50	.5		
CULG	04	0356	0412	0422	N18	E11	.262	17092	5.0	26	-F	C	0412	60	.6		
LEAR	04	0408	0414	0423	N20	E14	.320	17092	5.2	15	-F	3 C		42			

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP87468	04	0418+1	0418+1	0438	S06	W16	.354	17089	3.0	20	-N					
			0428													
CULG	04	0356	0413U	0448	S07	W18	.389	17089	2.8	52	1N	* C	0413	280	3.0	
PURP	04	0418E	0418	0430	S07	W15	.353	17089	3.1	12D	-N	* C				
LEAR	04	0418	0428	0441	S06	W16	.354	17089	3.0	23	-N	* C		48		
YUNN	04	0419	0419	0435	S06	W17	.367	17089	2.9	16	-N	* C		161	1.8	
469 ABST	04	0459E	0459	0534	S09	W20	.434	17089	2.7	35D	?F	P	0459	244	2.7	EJ
			IMP.1	NO : CULG	YUNN	MITK										
470 ABST	04	0459E	0459	0519	N10	W20	.341	17098	2.7	20D	-F	P	0459	87	1.0	DJ
GRP87471	04	0523+5	0527+2	0540	N18	E36	.597	17093	6.9	17	-N			160	2.0	E
			0536													
PURP	04	0523	0536	0553	N18	E37	.610	17093	7.0	30	-N	P				E
CULG	04	0525	0527	0538	N18	E36	.597	17093	6.9	13	-N	C	0527	70	.9	
ABST	04	0526	0529	0540D	N18	E36	.583	17093	6.9	14D	1N	P	0529	192	2.4	E
YUNN	04	0528	0528	0530D	N18	E36	.597	17093	6.9	2D	1F	P		161	2.1	
	04	0554	0555	NO FLARE PATROL												
GRP87472	04	0636+4	0640+3	0655	N11	W16	.280	17098	3.1	19	-N			140	1.5	E
														100	1.1	
CULG	04	0636	0643	0652	N11	W16	.280	17098	3.1	16	-N	C	0643	210	2.3	F
ABST	04	0636	0640	0647D	N11	W15	.264	17098	3.1	11D	1N	* P	0640	109	1.2	E
PEKG	04	0638	0640	0654	N11	W16	.280	17098	3.1	16	-N	* C	0640	172	1.8	E
BUCA	04	0640		0655	N09	W17	.291	17098	3.0	15	-F	* P	0644	130	1.4	E
KHAR	04	0641E	0642	0700D	N10	W15	.260	17098	3.2	19D	-N	* C	0642	130	1.4	E
GRP87473	04	0653+7	0656+4	0725	N12	W19	.331	17098	2.9	32	-N			120	1.3	E
			0708+2													
KANZ	04	0639	0659	0723	N12	W17	.299	17098	3.0	44	-N	*				F
PURP	04	0648	0700	0736	N12	W17	.299	17098	3.0	48	1N	* P				E
CULG	04	0653	0656	0709D	N13	W21	.366	17098	2.7	16D	-N	C	0656	100	1.1	
PEKG	04	0653	0656	0721	N12	W21	.362	17098	2.7	28	-N	* C	0656	88	1.0	E
KHAR	04	0657	0708	0726D	N13	W20	.350	17098	2.8	29D	-N	* C	0710	160	1.8	E
CATA	04	0700	0710	0725	N12	W21	.362	17098	2.7	25	-F	* C	0710	84	.9	
BUCA	04	0700		0725	N13	W20	.350	17098	2.8	25	-N	* P	0710	129	1.4	E
KHAR	04	0700	0710	0733	N13	W15	.273	17098	3.2	33	-F	* C	0710	70	.7	D
KHAR	04	0700E	0700	0713D	N12	W16	.284	17098	3.1	13D	-F	* C	0700	20	.2	D
KHAR	04	0702E	0702	0706D	N15	W20	.360	17098	2.8	4D	-F	* C	0702	45	.5	D
KHAR	04	0707E	0708	0715D	N10	W23	.389	17098	2.6	8D	-F	* V	0708			D
YUNN	04	0715	0717	0718	N14	W18	.324	17098	3.0	3	1F	* C		193	2.1	
KHAR	04	0719	0719	0726	N14	W15	.279	17098	3.2	7	-F	* C	0719	30	.4	E
GRP87474	04	0716E	0718	0750D	N14	E57	.832	17095	8.6	34	-N					H
																DH
KHAR	04	0716E	0718	0745D	N14	E57	.832	17095	8.6	29D	-N	C	0719	20	.4	
KHAR	04	0716E		0750D	N14	E57	.832	17095	8.6	34D	-F	C	0719	20	.4	D
GRP87475	04	0723+4	0726+3	0800	N21	E12	.309	17092	5.2	37	-F			60	.6	EU
			0755													
KHAR	04	0723	0726	0800	N22	E15	.353	17092	5.4	37	-F	C	0726	50	.6	E
PEKG	04	0727	0729	0732	N21	E12	.309	17092	5.2	5	-F	C	0729	76	.8	EU
PEKG	04	0753	0755	0810	N21	E12	.309	17092	5.2	17	-F	P	0755	50	.5	E
GRP87476	04	0738	0739+2	0747D	N08	W17	.290	17098	3.0	9	-F					
KHAR	04	0738	0739	0741	N09	W16	.275	17098	3.1	3	-F	C	0739	20	.2	D
KHAR	04	0741E	0741	0747D	N08	W19	.323	17098	2.9	6D	-F	C	0741	30	.3	
GRP87477	04	0750E	0754	0802	N12	W19	.331	17098	2.9	12	-F					E
KHAR	04	0750E	0754	0758D	N12	W19	.331	17098	2.9	8D	-F	C	0750	20	.2	
PEKG	04	0755E	0755	0802	N13	W19	.335	17098	2.9	7D	-N	P	0755	71	.8	E
478 KHAR	04	0801E	0807	0811D	N23	E49	.761	17096	8.0	10D	-N	P	0801	50	.7	D
479 PEKG	04	0803	0810	0818	N12	W20	.347	17098	2.8	15	-N	C	0810	134	1.5	E
480 KHAR	04	0814E	0815	0819D	N24	E45	.722	17096	7.7	5D	-F	V	0815			D

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Cmd	Cen Dist	Hale Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks	
GRP87481	04	0851+0	0853+2	0912	N20	E35	.591	17093	7.0	21	-F			45	.6	D	
KANZ	04	0851	0855	0910	N20	E35	.591	17093	7.0	19	-F	2					
LEAR	04	0851	0853	0913	N20	E35	.591	17093	7.0	22	-F	3	C	37			
KHAR	04	0853E		0854D	N19	E40	.735	17093	7.4	1D	-F		P 0854	50	.6	D	
482	PEKG	04	0909	0913	0930	S08	W24	.475	17089	2.6	21	-N	C	0913	92	1.1	E
GRP87483	04	0934+3	0937+0	0955	S11	W22	.477	17089	2.7	21	-F			25	.3	EK	
			0950														
PEKG	04	0934	0950	0955	S10	W22	.468	17089	2.7	21	-N	C	0950	29	.4	E	
PEKG	04	0934	0937	0955	S10	W22	.468	17089	2.7	21	-N	C	0937	46	.5	EK	
KANZ	04	0937	0937	0955	S11	W20	.454	17089	2.9	18	-F	2					
KHAR	04	0942E		0955D	S12	W22	.487	17089	2.8	13D	-F		P 0955	20	.2		
484	KHAR	04	1048E	1048	1056D	N13	W22	.381	17098	2.8	8D	-F	C	1048	20	.2	D
GRP87485	04	1048>9	1108+1	1226	S08	W23	.462	17089	2.7	98	-N					EH	
			1214														
KHAR	04	1048E	1108	1229D	S09	W23	.471	17089	2.7	101D	1N	C	1108	170	2.0	EH	
KANZ	04	1109	1109	1140	S08	W24	.475	17089	2.7	31	-F	1					
RAMY	04	1210E	1214	1226	S08	W23	.462	17089	2.8	16D	-N	3	C	52			
486	KHAR	04	1206E	1207	1213D	N18	W54	.805	17086	31.5	7D	-F	V	1207			D
487	KHAR	04	1213E	1213	1224D	N09	W26	.435	17098	2.6	11D	-F	P	1213			DH
		04	1426	1442	NO FLARE PATROL												
488	WEND	04	1625	1627	1632	N11	W17	.296	17098	3.4	7	-N	V	1627	45	.5	D
489	PALE	04	1719E	1719U	1738	S07	W16	.365	17100	3.5	19D	-N	3	C	66		
490	HOLL	04	2135	2138	2201	S09	W30	.559	17089	2.6	26	-N	3	C	129		
491	HOLL	04	2148	2158	2201D	N10	W29	.482	17098	2.7	13D	2N	3	C	325		
			IMP.1 NO : BIGB														
GRP87492	04	2213+2	2218+2	2254	S07	W30	.547	17089	2.7	41	1B					F	
			2242														
CULG	04	2213	2220	2252	S05	W30	.535	17089	2.7	39	1B	C	2220	170	2.0		
HOLL	04	2214	2220	2221D	S09	W28	.534	17089	2.8	7D	1B	3	C	287			
BIGB	04	2215	2218	2254	S07	W30	.547	17089	2.7	39	1B	2	C	2218	100	1.2	
PEKG	04	2241	2242	2256	S07	W30	.547	17089	2.7	15	-N	P	2242	105	1.3	F	
493	CULG	04	2226	2229	2237	N12	W20	.347	17098	3.4	11	-F	C	2229	50	.5	T
494	PEKG	04	2240	2242	2242D	N12	W29	.484	17098	2.8	2D	-F	P	2242	50	.6	E
495	PEKG	04	2250	2253	2254	N25	E37	.637	17096	7.7	4	-N	P	2253	46	.6	E
GRP87496	04	2315+0	2317+0	2324	N11	W20	.344	17098	3.5	9	-F			60	.6	DH	
CULG	04	2315	2317	2324	N12	W20	.347	17098	3.5	9	-N	C	2317	60	.6	T	
VORO	04	2315	2317	2323	N11	W21	.359	17098	3.4	8	-F	C	2317	72	.8	DH	
497	LEAR	04	2337E	2339	0002	S07	W18	.389	17100	3.6	25D	-N	3	C	112		
GRP87498	04	2359+1	0001+1	0006	N11	W21	.359	17098	3.4	7	-F			50	.5	DH	
LEAR	05	0000	0001	0006	N11	W27	.453	17098	3.0	6	-F	3	C	33			
VORO	05	0000	0002	0007	N11	W21	.359	17098	3.4	7	-F	C	0002	72	.8	DH	
CULG	04	2359	2401	0006	N12	W21	.362	17098	3.4	7	-F	C	2401	50	.5	T	
GRP87499	05	0011+1	0013+0	0017	N16	E47	.728	17095	8.5	6	-N			30	.4		
CULG	05	0011	0013	0018	N18	E49	.753	17095	8.7	7	-N	C	0013	30	.4		
LEAR	05	0012	0013	0016	N15	E46	.716	17095	8.5	4	-N	3	C	26			
500	YUNN	05	0051	0101	0107	N12	W22	.378	17098	3.4	16	-F	C	48	.5		
501	LEAR	05	0209	0211	0216	S07	W32	.573	17089	2.7	7	-F	3	C	23		
		05	0215	0221	NO FLARE PATROL												

H - ALPHA SOLAR FLARES

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Cmd	Gen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks		
GRP87502	05	0224+1	0227+2	0237	N12	W22	.378	17098	3.4	13	1N			200	2.2			
YUNN	05	0224	0228	0234	N13	W22	.381	17098	3.4	10	-F			193	1.9			
LEAR	05	0225	0229	0240	N12	W22	.378	17098	3.5	15	-B	3	C	155		D		
PEKG	05	0226E	0227	0230D	N11	W23	.391	17098	3.4	4D	1B		P	0227	252	2.8	F	
	05	0239	0241	NO FLARE PATROL														
	05	0243	0251	NO FLARE PATROL														
	05	0301	0313	NO FLARE PATROL														
503	PEKG	05	0319	0324	0329	N17	W18	.344	17098	3.8	10	-N		C	0324	21	.2	D
GRP87504	05	0339+5	0344+3	0353	N14	W22	.385	17098	3.5	14	-N			90	1.0	EH		
PEKG	05	0339	0346	0350	N12	W24	.409	17098	3.4	11	-B		C	0344	63	.7	EH	
PEKG	05	0339	0344	0354	N17	W17	.330	17098	3.9	15	-N		C	0344	38	.4	D	
YUNN	05	0344	0347	0352	N13	W23	.396	17098	3.4	8	-F		C		80	.9		
505	PEKG	05	0404	0429	0439	N12	W24	.409	17098	3.4	35	-N		C	0429	59	.6	E
GRP87506	05	0547>9	0553	0632	N09	W30	.496	17098	3.0	45	-N						J	
			0603															
ABST	05	0547	0553	0646	N08	W28	.466	17098	3.1	59	-F		C	0553	87	1.0	DJ	
PEKG	05	0559	0603	0618	N10	W33	.541	17098	2.8	19	1B		C	0602	176	2.1	F	
GRP87507	05	0559+3	0602+2	0616	S11	W33	.610	17089	2.8	17	-N							
PEKG	05	0559E	0602	0615	S11	W32	.598	17089	2.8	16D	-N		C	0602	50	.6	E	
ABST	05	0602	0604	0616	S12	W34	.628	17089	2.7	14	1F		C	0604	183	2.4	F	
508	KHAR	05	0652E	0652	0657	N15	E36	.589	17095	8.0	5D	-F		P				D
GRP87509	05	0711+2	0712+3	0721	N12	W26	.439	17098	3.3	10	-N			60	.7	DV		
KHAR	05	0701E	0714	0731D	N12	W26	.439	17098	3.3	30D	-N		P	0714	50	.6		
ABST	05	0711	0712	0718	N11	W26	.437	17098	3.3	7	-N		C	0712	87	1.0	DV	
WEND	05	0713	0715	0721	N12	W26	.439	17098	3.4	8	-N		C	0715	50	.6	D	
510	KHAR	05	0735E	0735	0802D	S28	E79	.994	17106	11.2	27D	-F		V	0735			DH
511	KHAR	05	0744E	0744	0748D	N11	W33	.541	17098	2.8	4D	-F		P	0744	70	.9	
GRP87512	05	0746	0749+4	0801	N17	E19	.358	17093	6.7	15	-F							
ABST	05	0746	0749	0800	N19	E19	.373	17093	6.7	14	-F		C	0749	87	1.0	DJ	
KHAR	05	0752E	0753	0802D	N16	E19	.351	17093	6.8	10D	-F		V	0753			D	
GRP87513	05	0808	0813+6	0833	N12	W26	.439	17098	3.4	25	-F			35	.4	E		
PEKG	05	0808	0813	0830	N12	W27	.454	17098	3.3	22	-F		C	0813	25	.3	E	
KHAR	05	0810E	0819	0835D	N12	W26	.439	17098	3.4	25D	-F		P	0819	40	.5		
514	KHAR	05	0835E	0835	0838D	N20	E22	.420	17093	7.0	3D	-F		P	0835	50	.6	D
515	ABST	05	0921	0923	0926D	N10	W40	.638	17098	2.4	5D	-F		P	0923	87	1.2	DJ
516	YUNN	05	0936	0940	0945	N18	E20	.379	17093	6.9	9	-F		C		161	1.8	
517	KHAR	05	0938E		0945D	N12	W27	.454	17098	3.4	7D	-F		P	0938	60	.7	
GRP87518	05	0947E	0947+5	1000D	N20	E20	.394	17093	6.9	13	-F			70	.8	DHJ		
ABST	05	0947E	0947	0959D	N20	E20	.394	17093	6.9	12D	-F		P	0947	87	.9	DJ	
KHAR	05	0950E	0952	1000D	N20	E21	.407	17093	7.0	10D	-F		P	0953	50	.6	DH	
GRP87519	05	1020+5	1020+5	1030	N15	E33	.548	17095	7.9	10	-N			80	1.0	DL		
YUNN	05	1020	1021	1025	N14	E34	.560	17095	8.0	5	1N		C	177	2.2			
KANZ	05	1020	1020	1027	N15	E33	.548	17095	7.9	7	-B	2					L	
WEND	05	1020	1022	1032	N15	E34	.562	17095	8.0	12	-N		C	1022	81	1.0	D	
CATA	05	1025	1025	1035	N15	E33	.548	17095	7.9	10	-F	1	C	1025	56	.7		
520	WEND	05	1214E	1216	1231D	N18	W61	.868	17086	31.9	17D	-F		C	1216	31	.7	CG
521	WEND	05	1246E	1250	1259D	N16	E11	.240	17134	6.4	13D	-F		C	1250	44	.5	E
GRP87522	05	1305+0	1305	1332	N19	E16	.334	17093	6.7	27	-N						E	
			1313															
WEND	05	1305	1313	1346D	N19	E17	.347	17093	6.8	41D	-N		C	1313	106	1.2	E	
KANZ	05	1305	1305	1317	N19	E15	.321	17093	6.7	12	-N	2						

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Imp	Obs Type	Area Measurement			Remarks
							cen Dist	Plage Region	CMP Day				Time (UT)	Appar (Disk)	Corr (Sq Deg)	
GRP87523	05	1429+3	1432+2	1448	N19	E15	.321	17093	6.7	19	+					E
WEND	05	1429	1434	1448D	N19	E16	.334	17093	6.8	19D	+	C	1434	81	.9	E
KANZ	05	1432	1432	1447	N19	E14	.309	17093	6.7	15	+	2				
GRP87524	05	1431+1	1432+2	1439	N15	E31	.520	17095	7.9	8	+					D
WEND	05	1431	1434	1438	N15	E31	.520	17095	7.9	7	+	C	1434	31	.4	D
KANZ	05	1432	1432	1439	N15	E31	.520	17095	7.9	7	+	2				D
	05	1535	1544	NO FLARE PATROL												
525 HUAN	05	1733		1734D	N09	W35	.569	17098	3.1	1D	+	1 P	1733	25	.3	D
GRP87526	05	1801	1803	1907	S08	W37	.642	17089	3.0	66	+					
BIGB	05	1801	1803	1907	S08	W37	.642	17089	3.0	66	+	1 C	1803	80	1.0	
PALE	05	1815E	1815U	1837D	S08	W37	.642	17089	3.0	22D	+	3 C		89		
527 PALE	05	1815E	1815U	1823	S04	W28	.502	17100	3.7	8D	+	3 C		14		
528 BIGB	05	1843	1846	1909D	N15	W34	.562	17098	3.2	26D	+	1 P	1846	120	1.5	
	05	1909	2004	NO FLARE PATROL												
	05	2138	2141	NO FLARE PATROL												
529 CULG	05	2140	2144	2151	N13	E32	.530	17095	8.3	11	+	C	2144	60	.7	
530 CULG	05	2222	2223	2230U	S25	E24	.640	17103	7.7	8D	+	C	2223	20	.2	
531 CULG	05	2342	2348	2359	N12	E26	.439	17095	7.9	17	+	C	2348	60	.7	
GRP87532	06	0014+9	0024	0052	N14	W38	.614	17098	3.2	38	+					E
			0035+5													
PEKG	06	0014	0024	0059	N13	W38	.613	17098	3.2	45	+	C	0024	76	1.0	E
CULG	06	0031	0035	0046	N13	W49	.749	17098	2.3	15	+	C	0035	40	.6	T
LEAR	06	0040	0040	0048	N15	W38	.616	17098	3.2	8	+	3 C		24		
YUNN	06	0050E	0050	0055	N15	W38	.616	17098	3.2	5D	+	P		96	1.3	E
533 CULG	06	0023	0026	0034	N18	W70	.932	17086	31.8	11	+	C	0026	40		G
GRP87534	06	0100+2	0104+2	0113	N28	E27	.543	17096	8.1	13	+			60	.7	E
PEKG	06	0100	0104	0112	N29	E27	.551	17096	8.1	12	+	P	0104	63	.8	E
CULG	06	0102	0106	0113	N28	E28	.554	17096	8.1	11	+	C	0106	70	.8	
GRP87535	06	0144+0	0149+5	0218	N16	W39	.631	17098	3.1	34	1N			290	3.8	FHLU
CULG	06	0129	0153	0218	N18	W42	.673	17098	2.9	49	2F	C	0153	410	5.3	FHL
PEKG	06	0144	0149	0204	N16	W38	.618	17098	3.2	20	1B	C	0149	252	3.3	FU
LEAR	06	0144	0154U	0219	N15	W39	.629	17098	3.1	35	1N	3 C		221		
536 CULG	06	0204	0241	0317	S29	E20	.657	17103	7.6	73	+	C	0241	140	1.8	F
537 CULG	06	0205	0208	0216	N10	E26	.436	17095	8.0	11	+	C	0208	80	.9	
GRP87538	06	0613+1	0616+0	0619	S08	W47	.758	17089	2.7	6	+			25	.4	D
CULG	06	0613	0616	0618	S08	W48	.769	17089	2.7	5	+	C	0616	30	.5	
PEKG	06	0614	0616	0619	S09	W47	.761	17089	2.7	5	+	C	0616	17	.3	D
539 KHAR	06	0638E		0648D	N16	E26	.452	17095	8.2	10D	+	C				D
540 KHAR	06	0702E	0702	0705D	N18	E07	.221	17093	6.8	3D	+	C				D
541 KHAR	06	0725E	0725	0728D	N11	W54	.803	17098	2.3	3D	+	C	0725	50	.9	D
GRP87542	06	0854+1	0857+7	0927	S11	W46	.758	17089	2.9	33	1N					
LEAR	06	0854	0857	0931	S11	W46	.758	17089	2.9	37	1B	3 C		230		D
YUNN	06	0855	0857	0913	S10	W46	.754	17089	2.9	18	1N	C		193	2.9	
KHAR	06	0855E	0857	0929D	S12	W49	.792	17089	2.7	34D	1N	P	0858	190	3.2	E
CATA	06	0855	0900	0925	S12	W47	.772	17089	2.8	30	1F	2 C	0900	169	2.7	
MANI	06	0858E	0858U	0904D	S10	W45	.743	17089	3.0	6D	+	1 V		50	.8	F
ATHN	06	0901E	0904	0928	S08	W47	.758	17089	2.9	27D	+	3 V	0904	32	.5	
543 LEAR	06	0914	0919	0936D	N14	E27	.460	17095	8.4	22D	+	3 C		26		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Cmd	Hale Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks	
544	KHAR	06	1125	1125	1132	N12	W42	.664	17098	3.3	7	-N	P	1127	80	1.1	D
GRP87545	06	1254	1257 1308	1320	S24	E20	.600	17103	8.0	26	-N						EGJ
LVOV	06	1254	1257	1315	S23	E20	.588	17103	8.0	21	-N	C	1257	150	1.9	EGJ	
KHAR	06	1306E	1308	1324D	S25	E21	.618	17103	8.1	18D	1N	P	1308	370	4.1	E	
GRP87546	06	1254	1256 1307	1314	N11	W41	.651	17098	3.5	20	1N						EJ
LVOV	06	1254	1256	1310	N12	W41	.652	17098	3.5	16	1N	C	1256	150	2.1	EJ	
KHAR	06	1306E	1307	1318D	N10	W41	.651	17098	3.5	12D	-N	P				E	
	06	1438	1635	NO FLARE PATROL													
	06	1735	1741	NO FLARE PATROL													
	06	1915	1951	NO FLARE PATROL													
	06	2001	2116	NO FLARE PATROL													
547	CULG	06	2207	2210U	2224U	N12	E19	.331	17095	8.3	17D	-F	C	2210	60	.6	
548	CULG	06	2252	2256	2308	N23	W26	.493	17092	5.0	16	-F	C	2256	40	.5	
GRP87549	06	2325+4	2329+0 2344	2350	S07	W57	.854	17089	2.7	25	-F			30	.6	EK	
CULG	06	2325	2329	2351	S08	W57	.856	17089	2.7	26	-F	C	2329	40	.7	K	
LEAR	06	2329	2329	2350	S07	W53	.817	17089	3.0	21	-F	3 C		19			
PEKG	06	2329	2344	2350	S05	W59	.867	17089	2.6	21	-N	P	2344	42	.9	E	
GRP87550	07	0009+2	0011+3	0026	N23	W25	.481	17092	5.1	17	-F			50	.6	E	
PEKG	07	0009	0014	0018	N23	W25	.481	17092	5.1	9	-F	C	0014	67	.8	E	
LEAR	07	0011	0011	0026	N22	W26	.486	17092	5.1	15	-F	3 C		41			
CULG	07	0024	0028	0040	N28	W25	.522	17092	5.1	16	-F	C	0028	60	.7		
GRP87551	07	0033+6	0038+6	0058	N15	W54	.803	17098	3.0	25	-F			90	1.5		
CULG	07	0033	0038	0055	N15	W55	.813	17098	2.9	22	-N	C	0038	120	1.9	F	
PEKG	07	0039	0044	0100	N15	W53	.548	17098	3.1	21	-F	* P	0044	59	1.0	E	
552	CULG	07	0133	0139	0205	N19	W53	.796	17098	3.1	32	-N	C	0139	80	1.4	
553	PEKG	07	0140	0142	0145	N24	W27	.512	17092	5.0	5	-N	C	0142	50	.6	D
GRP87554	07	0150+8	0202+4	0220	N21	W25	.466	17092	5.2	30	-N			100	1.1	E	
CULG	07	0150	0206	0233	N23	W25	.481	17092	5.2	43	-N	C	0206	110	1.2	T	
PEKG	07	0153	0202	0220	N21	W25	.466	17092	5.2	27	-N	C	0202	97	1.1	E	
LEAR	07	0158	0202	0217	N21	W25	.466	17092	5.2	19	-N	3 C		44			
555	CULG	07	0213	0214	0223	N27	E08	.361	17096	7.7	10	-N	C	0214	80	.8	
556	CULG	07	0241	0250	0313	N08	E72	.947	17113	12.5	32	-F	C	0250	40		G
557	PEKG	07	0314	0316	0320	N29	E11	.408	17096	8.0	6	-F	C	0316	21	.2	E
GRP87558	07	0316+3	0321+1	0335	N21	W25	.466	17092	5.3	19	-B			110	1.3	EL	
CULG	07	0316	0322	0348	N23	W25	.481	17092	5.3	32	-N	C	0322	110	1.2	T	
PEKG	07	0317	0321	0335	N21	W26	.479	17092	5.2	18	-B	C	0320	168	2.0	EL	
LEAR	07	0319	0322	0331	N21	W25	.466	17092	5.3	12	-B	3 C		56			
GRP87559	07	0356	0401 0440	0515	S05	W62	.892	17089	2.5	79	-N						K
PEKG	07	0356	0440	0513	S05	W63	.899	17089	2.4	77	-B	C	0440	50	1.2	D	
PEKG	07	0356	0401	0513	S05	W62	.892	17089	2.5	77	-N	C	0401	55	1.2	DK	
CULG	07	0420U	0453	0517	S05	W65	.914	17089	2.3	57D	-N	C	0453	70	1.4		
YUNN	07	0429E	0430	0432D	S04	W62	.890	17089	2.5	3D	-N	P		16	.4		
560	CULG	07	0511	0514	0522	N43	E56	.871		11.4	11	-F	C	0514	30	.6	G
561	CULG	07	0513	0515	0529	N23	W27	.505	17092	5.2	16	-N	C	0515	80	.9	T
562	CULG	07	0531	0536	0549	N16	W55	.813	17098	3.1	18	-F	C	0536	60	1.0	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks	
GRP87563	07	0543+4	0547+2	0609	N14	E16	.294	17095	8.4	26	-F					F	
CULG	07	0543	0549	0619U	N15	E15	.286	17095	8.4	36D	-F	C	0549	90	.9	F	
LEAR	07	0547	0547	0559	N14	E17	.309	17095	8.5	12	-F	3 C		31			
564	CULG	07	0612	0613	0618	S05	W62	.892	17089	2.6	6	-F	C	0613	60	1.2	
565	CULG	07	0629	0635U	0640	N30	E11	.422	17096	8.1	11	-F	C	0635	40	.4	
GRP87566	07	0725+3	0732+6	0800	N22	W27	.499	17092	5.3	35	-N			160	1.9	E	
WEND	07	0725	0734	0809	N22	W26	.486	17092	5.4	44	1N	C	0734	181	2.3		
LEAR	07	0727	0732	0753	N24	W26	.500	17092	5.4	26	-F	3 C		135			
KANZ	07	0728	0732	0754	N22	W30	.537	17092	5.1	26	-N	2					
KHAR	07	0731E	0738	0806D	N23	W28	.518	17092	5.2	35D	1N	P	0738	170	2.1	E	
567	KHAR	07	0738E	0748	0809D	S08	W61	.889	17089	2.7	31D	?N	P	0748	20		E
IMP.1 NO : WEND KANZ																	
568	KHAR	07	0813E	0813	0825D	N06	E69	.930	17113	12.5	12D	-F	P				
569	KHAR	07	0851E	0908	0912D	S06	W66	.922	17089	2.4	21D	-F	P				D
570	KHAR	07	0901E	0904	0912D	N21	W24	.453	17092	5.6	11D	-N	P				D
571	LEAR	07	0930	0930	0933D	N05	E65	.903	17113	12.3	3D	-F	3 C		18		
572	KHAR	07	0935E	0938	0938D	S08	W60	.881	17089	2.9	3D	-F	P	0935			E
GRP87573	07	0958	1002+0	1007	S07	W67	.929	17089	2.4	9	-F					D	
WEND	07	0958	1002	1006	S04	W65	.912	17089	2.5	8	-F	C	1002	31		D	
KHAR	07	1001E	1002	1007D	S10	W70	.950	17089	2.2	6D	-N	P	1002			D	
574	KHAR	07	1026E		1033D	N14	E12	.235	17095	8.3	7D	-F	P				D
575	KHAR	07	1130E	1133	1142D	N11	E90	1.000	17117	14.2	12D	-N	P	1130			
576	KHAR	07	1150E	1153	1156D	N11	E90	1.000	17117	14.2	6D	-F	V	1153			
577	RAMY	07	1244	1250	1255	N09	W61	.869	17098	3.0	11	-F	3 C		15		
578	BERN	07	1258	1300	1303	N14	E90	1.000	17117	14.3	5	?N					
IMP.1 NO : RAMY																	
GRP87579	07	1437	1445+3	1527	N14	E85	.993	17117	14.0	50	-N						
KANZ	07	1437	1445	1525	N14	E81	.983	17117	13.7	48	-N	3					
BIGB	07	1442E	1448	1529	N14	E90	1.000	17117	14.4	47D	1N	2 P	1448	120			
580	KANZ	07	1445	1457	1505	S08	W65	.918	17089	2.7	20	-B	3				
581	WEND	07	1617	1621	1642	N27	E07	.356	17096	8.2	25	-F	C	1621	63	.7	
582	WEND	07	1644		1700	N20	W24	.447	17092	5.9	16	-F	C	1648	31	.4	D
GRP87583	07	1859>9	1909+1	1916	N15	E06	.169	17095	8.2	17	-N			40	.4		
HUAN	07	1859	1909	1915	N15	E06	.169	17095	8.2	16	-N	1 C	1909	40	.4		
HOLL	07	1910	1910	1917	N15	E07	.180	17095	8.3	7	-N	3 C		36			
GRP87584	07	2004	2014	2033	S06	W66	.922	17089	2.9	29	-F						
HOLL	07	2004	2014	2026	S06	W66	.922	17089	2.9	22	-F	3 C		53			
HUAN	07	2011E		2039D	S06	W67	.928	17089	2.8	28D	-N	1 P	2028	40			
GRP87585	07	2225>9	2241+1	2257	N15	E05	.159	17095	8.3	32	-F						
CULG	07	2225	2241	2302	N15	E05	.159	17095	8.3	37	-N	C	2241	200	2.0		
HOLL	07	2236	2242	2252	N15	E05	.159	17095	8.3	16	-F	3 C		33			
GRP87586	07	2303	2304	2333	N20	W40	.653	17092	5.0	30	-F						
HOLL	07	2303	2304	2320	N19	W40	.650	17092	5.0	17	-F	3 C		25			
CULG	07	2305U	2313U	2345U	N22	W40	.659	17092	5.0	40D	-F	C	2313	60	.8		
587	CULG	07	2324	2326	2338	N12	E04	.108	17095	8.3	14	-F	C	2326	90	.9	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Cmd	Con Dist	Hale Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
588	CULG	07	2330	2338	2345	N03	E60	.865 17113	12.5	15	-F	C	2338	20	.4	
GRP87589	07	2358+8	0003+3	0029	N28	00	.354 17096	8.0	31	-F						
	HOLL	08	0006	0006	0014	N28	W01	.355 17096	7.9	8	-F	3	C		23	
	CULG	07	2358	2403	0043	N29	E00	.371 17096	8.0	45	-N	C	2403	100	1.0	
GRP87590	08	0034+6	0042+3	0055	N06	E59	.853 17113	12.4	21	1N				160	3.1	JU
	PEKG	08	0034	0042	0047	N07	E59	.853 17113	12.4	13	1B	C	0042	176	3.5	EU
	CULG	08	0037	0044	0057	N05	E59	.867 17113	12.5	20	1N	C	0044	160	2.9	U
	VORO	08	0040	0045	0055	N06	E60	.862 17113	12.5	15	-N	C	0045	45	.9	DJ
GRP87591	08	0042+1	0045	0118	N17	E06	.197 17095	8.5	36	-F						
	PEKG	08	0042	0045	0105	N17	E07	.206 17095	8.6	23	-N	C	0045	80	.8	E
	CULG	08	0043	0059	0130	N17	E05	.189 17095	8.4	47	-F	C	0059	140	1.4	F
GRP87592	08	0144+9	0214+4	0231	N16	E08	.203 17095	8.7	47	-N				40	.4	D
	CULG	08	0144	0218	0315U	N16	E08	.203 17095	8.7	91D	-N	C	0218	50	.5	
	PEKG	08	0212	0214	0231	N16	E08	.203 17095	8.7	19	-N	C	0214	42	.4	D
	YUNN	08	0214E	0214	0216	N16	E08	.203 17095	8.7	2D	-N	P		32	.3	
593	PEKG	08	0208E	0208	0208D	N10	E84	.992 17117	14.4		-F	P	0208	29		D
594	PEKG	08	0332E	0332	0340	S05	W75	.970 17089	2.5	8D	-F	P	0338	21		D
595	LEAR	08	0336	0340	0341	N06	E56	.825 17113	12.3	5	-F	3	C		19	
596	LEAR	08	0336	0338	0341	N22	W41	.671 17092	5.1	5	-F	3	C		22	
597	CULG	08	0403	0414	0450	N11	W80	.981 17098	2.2	47	-F	C	0414	40		
GRP87598	08	0502+2	0504+1	0518	N10	E90	1.000 17117	15.0	16	-N						ADJ
	ABST	08	0502	0504	0512	N10	E90	1.000 17117	15.0	10	1N	C	0504	131		ADJ
	LEAR	08	0504	0505	0523	N11	E90	1.000 17117	15.0	19	-N	3	C			
GRP87599	08	0506+3	0513+0	0526	N10	W04	.084 17095	7.9	20	-F						F
	CULG	08	0506	0513	0528	N11	W04	.095 17095	7.9	22	-F	C	0513	80	.8	F
	ABST	08	0509	0513	0523	N10	W04	.084 17095	7.9	14	-F	C	0513	175	1.8	F
GRP87600	08	0522+2	0524+6	0713	S09	W68	.938 17089	3.1	111	2B						FHJU
	ABST	08	0522	0524	0609	S09	W70	.949 17089	3.0	47	1B	C	0524	218		FJW
	LEAR	08	0523	0527	0643	S11	W68	.940 17089	3.1	80	3B	3	C		862	
	CULG	08	0523	0530	0625D	S06	W70	.946 17089	3.0	62D	3B	C	0530	800		F
	ABST	08	0523	0525	0742	S13	W64	.919 17089	3.4	139	1N	C	0525	114		FJ
	YUNN	08	0524	0527	0626	S08	W70	.948 17089	3.0	62	2N	C		482		
	PEKG	08	0529E	0529	0630	S09	W70	.949 17089	3.0	61D	2B	C	0529	500		FHU
	MANI	08	0544E	0544U	0639D	S07	W72	.957 17089	2.8	55D	2F	2	P	350	8.0	FZ
	CATA	08	0610E	0610	0725	S13	W64	.919 17089	3.5	75D	2F	2	P	0610	281	
	WEND	08	0647E		0820	S10	W65	.920 17089	3.4	93D	1N	C	0647	213		
	KHAR	08	0802E	0802	0829D	S10	W66	.927 17089	3.4	27D	1F	P	0804			
601	PEKG	08	0642	0645	0728	N22	W43	.694 17092	5.1	46	-N	P	0645	50	.7	EH
GRP87602	08	0654+2	0656+4	0711	N28	W03	.357 17096	8.1	17	-N						JK
	PEKG	08	0654	0700	0705	N30	W03	.390 17096	8.1	11	-N	P	0700	103	1.3	E
	ABST	08	0654	0656	0729	N28	W03	.357 17096	8.1	35	-N	C	0656	175	1.9	FJK
	WEND	08	0656	0700	0711	N27	W03	.341 17096	8.1	15	-F	C	0700	63	.7	
GRP87603	08	0725+0	0728+4	0755	N16	E02	.156 17095	8.5	30	-N				110	1.1	EJU
	PEKG	08	0725	0728	0755	N17	E02	.173 17095	8.5	30	-N	C	0728	126	1.3	E
	ABST	08	0725	0732	0800	N17	W03	.177 17095	8.1	35	-N	C	0728	131	1.4	DJ
	WEND	08	0725	0728	0749	N16	E02	.156 17095	8.5	24	-F	C	0728	75	.8	E
	ISTA	08	0725		0755	N15	E03	.144 17095	8.5	30	1N					U
604	KHAR	08	0840E	0843	0854D	S25	E28	.672 17106	10.5	14D	-F	V	0843			DH
605	KHAR	08	0854E	0855	0859D	N13	E82	.987 17117	14.5	5D	-F	V	0855			D
606	KHAR	08	0902E	0903	0918D	N04	E55	.817 17113	12.5	16D	-F	P	0906	80	1.2	
607	ABST	08	1001	1004	1008D	N17	W01	.170 17095	8.3	7D	-F	P	1004	87	.9	EJ

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	QMD	Hale Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP87608	08	1015+1	1021+2 1030	1140	N19	W18	.360	17093	7.1	85	1N			350	3.8	EIU
CATA	08	1015	1030	1145	N18	W19	.365	17093	7.0	90	2F	1 C	1030	534	5.9	
KHAR	08	1015E	1021	1108D	N19	W18	.360	17093	7.1	53D	1N	P	1021	350	3.7	E
YUNN	08	1016	1021	1027	N20	W18	.368	17093	7.1	11	-N	C		64	.8	
WEND	08	1016	1023	1153D	N19	W21	.399	17093	6.9	97D	2N	C	1023	475	5.6	IU
KHAR	08	1115E	1116	1134D	N22	W16	.364	17093	7.3	19D	-F	P	1116	100	1.1	
609 WEND	08	1050		1105	N12	E81	.984	17117	14.5	15	-F	C	1054	25		D
GRP87610	08	1113+0	1117	1123D	N12	E80	.981	17117	14.5	10	-N					D
KHAR	08	1113E	1117	1123D	N13	E81	.984	17117	14.5	10D	-N	V	1117			D
WEND	08	1113		1122D	N12	E80	.981	17117	14.5	9D	-N	C	1117	28		D
611 KHAR	08	1143E	1144	1154D	N11	E77	.970	17117	14.3	11D	-F	P	1152	40		D
612 RAMY	08	1216	1217	1229	N23	W08	.301	17096	7.9	13	-F	3 C		30		
GRP87613	08	1228	1230	1254	N16	W07	.193	17095	8.0	26	-F					D
LVOV	08	1228	1230	1254	N14	W08	.180	17095	7.9	26	-F	C	1230	50	.6	D
WEND	08	1235E		1253D	N18	W06	.212	17095	8.1	18D	-F	C	1245	63	.7	
614 WEND	08	1348	1354	1421D	N12	E80	.981	17117	14.6	33D	?F	C	1354	88		
			IMP.1	NO : LVOV												
615 RAMY	08	1816	1819	1829	N13	W12	.227	17095	7.9	13	-N	3 C		38		
GRP87616	08	1910+5	1913+2	1923	N12	E75	.961	17117	14.4	13	1N					A
PALE	08	1910	1913	1930	N11	E75	.961	17117	14.4	20	1B	3 C				
HOLL	08	1910	1913	1916D	N14	E76	.965	17117	14.5	6D	1B	3 C				
BIGB	08	1912	1913	1919	N09	E75	.962	17117	14.4	7	1N	3 C	1913	80		A
RAMY	08	1915	1915	1923	N15	E76	.964	17117	14.5	8	-F	3 C				
617 HOLL	08	2008	2009	2020	N14	W07	.167	17095	8.3	12	-F	3 C		21		
618 HOLL	08	2032	2033	2038	N12	E68	.921	17117	14.0	6	-N	3 C		19		
GRP87619	08	2205E	2207+2	2216	N15	W12	.243	17095	8.0	11	-F			30	.3	
MANI	08	2205E	2207	2215D	N16	W12	.253	17095	8.0	10D	-F	1 V		30	.3	
PALE	08	2206E	2209U	2216	N15	W12	.243	17095	8.0	10D	-F	3 C		29		
620 VORO	08	2223	2225	2237	N13	W15	.273	17095	7.8	14	-N	C	2225	72	.8	EH
GRP87621	08	2255+7	2307+5	2322	N11	E70	.934	17117	14.2	27	-F					DJ
PALE	08	2255	2312	2320	N11	E71	.940	17117	14.3	25	-F	3 C		22		
YORO	08	2302	2307	2324	N12	E70	.934	17117	14.2	22	-N	C	2307	90		DJ
622 PALE	08	2300E	2300U	2307D	N24	W50	.773	17092	5.2	7D	-F	3 C		20		
GRP87623	09	0021+2	0022+3	0035	N13	W15	.273	17095	7.9	14	-N			70	.7	DJ
MANI	09	0021E	0022	0030D	N16	W13	.266	17095	8.0	9D	-N	1 V		20	.2	
VORO	09	0021	0024	0038	N13	W15	.273	17095	7.9	17	-N	C	0024	108	1.1	DJ
LEAR	09	0022	0023	0034	N13	W15	.273	17095	7.9	12	-N	3 C		103		
PEKG	09	0023	0025	0035	N14	W16	.294	17095	7.8	12	-N	C	0025	46	.5	D
GRP87624	09	0140+6	0147+3	0202	N14	W14	.264	17095	8.0	22	-B			130	1.3	EJ
VORO	09	0140	0150	0202	N13	W15	.273	17095	7.9	22	-N	C	0150	179	1.9	EJ
LEAR	09	0146	0148	0202	N14	W14	.264	17095	8.0	16	-B	3 C		125		
MANI	09	0147E	0147U	0156	N15	W12	.243	17095	8.2	9D	-B	1 V		60	.6	
625 LEAR	09	0350	0351	0403	N15	W11	.230	17095	8.3	13	-F	3 C		25		
GRP87626	09	0530+4	0534+2	0541	N21	W56	.826	17092	5.0	11	-F			40	.7	DJ
ABST	09	0530	0534	0541	N21	W56	.826	17092	5.0	11	-N	C	0534	87	1.5	DJ
PEKG	09	0533	0535	0539	N21	W57	.835	17092	5.0	6	-F	C	0535	34	.6	D
LEAR	09	0534	0536	0541	N21	W52	.788	17092	5.3	7	-F	3 C		37		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement		Remarks
							Dist	Plage Region	OMP Day					Appar (Disk)	Corr (Sq Deg)	
GRP87627	09	0615+5	0620+1	0628	N13	W19	.335	17095	7.8	13	±		110	1.2	J	
CULG	09	0615	0620U	0701	N16	W21	.380	17095	7.7	46	1B	C	0620	320	3.4	
ABST	09	0615	0620	0626	N13	W19	.335	17095	7.8	11	±	P	0620	96	1.1	DJ
PEKG	09	0616	0620	0627	N14	W19	.339	17095	7.8	11	±	C	0620	134	1.5	E
LEAR	09	0617	0621	0627	N13	W18	.319	17095	7.9	10	±	3 C		69		
CATA	09	0620	0620	0630	N13	W19	.335	17095	7.8	10	±	2 C	0620	112	1.2	
GRP87628	09	0630+7	0638+1	0700	N23	W56	.829	17092	5.1	30	±					DJ
CULG	09	0630U	0638	0700U	N25	W56	.831	17092	5.1	30D	±	C	0638	160	2.9	
ABST	09	0634	0638	0706	N23	W59	.854	17092	4.8	32	±	C	0638	87	1.7	DJ
LEAR	09	0637	0639	0648	N22	W55	.818	17092	5.2	11	±	3 C		42		
629 ABST	09	0634	0637	0641	N13	W20	.350	17095	7.8	7	±	C	0637	79	.9	DJ
630 LEAR	09	0647	0649	0654	N11	E71	.940	17117	14.6	7	±	3 C		12		
GRP87631	09	0714	0717	0730	N20	W60	.861	17092	4.8	16	±					J
ABST	09	0714	0717	0726	N19	W61	.868	17092	4.7	12	±	C	0717	87		DJ
ABST	09	0724	0726	0730	N21	W60	.861	17092	4.8	6	±	* C	0726	87	1.9	DJ
632 KANZ	09	0722	0726	0738	N14	E68	.920	17117	14.4	16	±	1				
GRP87633	09	0806+4	0810+0	0814	N21	W57	.835	17092	5.1	8	±					DJK
ABST	09	0806	0810	0828	N21	W60	.861	17092	4.8	22	±	C	0810	87	1.7	DJK
KANZ	09	0810	0810	0814	N21	W57	.835	17092	5.1	4	±	1				
LEAR	09	0810	0810	0814	N22	W57	.836	17092	5.1	4	±	3 C		22		
GRP87634	09	0836+2	0838+7	0848	N14	W19	.339	17095	7.9	12	±			100	1.1	DJ
ABST	09	0836	0842	0849	N13	W20	.350	17095	7.9	13	±	C	0842	96	1.0	DJ
PEKG	09	0837	0841	0847	N15	W19	.345	17095	7.9	10	±	C	0840	97	1.1	D
KHAR	09	0837E	0838	0848D	N14	W19	.339	17095	7.9	11D	±	P	0838	120	1.3	
KANZ	09	0838	0842	0846	N14	W18	.324	17095	8.0	8	±	2				
CATA	09	0845	0845	0850	N14	W19	.339	17095	7.9	5	±	2 C	0845	84	.9	
635 PEKG	09	0840E	0840U	0840D	N14	E70	.933	17117	14.6		±	P	0840	21		D
GRP87636	09	0843E	0844+2	0851D	N13	E64	.892	17117	14.2	8	±					E
KHAR	09	0843E	0844	0851D	N13	E67	.914	17117	14.4	8D	±	P	0844	50		E
KHAR	09	0845E	0846	0850D	N13	E61	.868	17117	13.9	5D	±	P	0846	30		D
GRP87637	09	0912+3	0915+3	0936	N24	W16	.386	17096	8.2	24	±			80	.9	EJ
ABST	09	0912	0915	0936D	N24	W15	.376	17096	8.3	24D	±	P	0915	175	1.8	EJ
LEAR	09	0914	0916	0936	N25	W17	.408	17096	8.1	22	±	3 C		69		
KANZ	09	0914	0918	0937	N24	W16	.386	17096	8.2	23	±	3				
CATA	09	0915	0915	0930	N23	W17	.386	17096	8.1	15	±	2 C	0915	84	.9	
KHAR	09	0930E	0930	0938D	N25	W16	.398	17096	8.2	8D	±	V	0930			E
638 KHAR	09	0930E	0930	0948D	N14	E55	.813	17116	13.5	18D	±	V	0930			E
639 KHAR	09	0931E		0944D	N14	E70	.933	17117	14.6	13D	±	P				D
640 ABST	09	0946	0956	1000D	N21	W60	.861	17092	4.9	14D	±	P	0956	87	1.7	DJ
GRP87641	09	0956	0957+3	1012D	N10	W22	.373	17095	7.8	16	±			60	.6	DJ
ABST	09	0956	0957	1000D	N11	W22	.375	17095	7.8	4D	±	P	0957	87	1.0	DJ
KHAR	09	0959E	1000	1012D	N10	W22	.373	17095	7.8	13D	±	P	1000	40	.4	D
642 KHAR	09	1038E	1041	1101D	N20	W60	.861	17092	4.9	23D	±	P				D
643 KHAR	09	1101E		1101D	N15	W79	.977	17098	3.5		±	P				D
644 KHAR	09	1136E	1138	1223D	S04	W90	1.000	17089	2.7	47D	?N	P	1138			
			IMP.1	NO : CATA	KANZ											
GRP87645	09	1150+4	1152+2	1202	N11	W22	.375	17095	7.8	12	±			45	.5	D
KHAR	09	1150E	1152	1200D	N10	W22	.373	17095	7.8	10D	±	P	1156	40	.4	D
LVOV	09	1154	1154	1202	N12	W23	.393	17095	7.8	8	±	P	1154	50	.6	D
646 KHAR	09	1155E	1156	1213D	S34	E90	1.002	17132	16.2	18D	±	V	1156			D

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Cmd	Hale Cen Dist	Hale Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
647	KHAR	09	1205E	1207	1218D	N14 E54	.803	17116	13.6	13D	+	V	1208			D
648	KHAR	09	1206E		1212D	N19 W39	.638	17093	6.6	6D	+	V	1206			D
GRP87649	09	1236	1239+1	1250	N14	W21	.370	17095	8.0	14	+					D
LVOV	09	1236	1240	1250	N14	W21	.370	17095	8.0	14	+	C	1240	100	1.1	D
KANZ	09	1239E	1239	1242D	N14	W21	.370	17095	8.0	3D	+	1				
650	KHAR	09	1236E	1239	1242D	N15 W79	.977	17098	3.6	6D	+	P				D
651	KHAR	09	1239E	1239	1249D	N23 W16	.375	17096	8.3	10D	+	P	1239	30	.3	E
	09	1444	1448	NO FLARE PATROL												
GRP87652	09	1833	1839+2	1923	S24	E11	.545	17106	10.6	50	+					
BIGB	09	1833	1839	1923	S25	E11	.559	17106	10.6	50	+	2 C	1839	120	1.3	
PALE	09	1839E	1841	1900D	S24	E11	.545	17106	10.6	21D	+	3 C		285		
653	PALE	09	1859E	1900	1931D	S08 W89	1.000	17089	3.1	32D	+	2 C				
654	BIGB	09	1900	1902	1954	S14 E88	1.000	17120	16.4	54	?	1 C	1902	170		A
				IMP.1 NO : PALE												
655	PALE	09	1946	1950	2006	N15 E62	.876	17117	14.5	20	+	3 C		48		D
	09	2053	2101	NO FLARE PATROL												
GRP87656	09	2104+2	2107+5	2121	N15	E60	.859	17117	14.4	17	+					
CULG	09	2104	2107	2123	N16	E60	.859	17117	14.4	19	+	1 C	2107	110	2.2	
PALE	09	2106	2112	2119	N15	E61	.868	17117	14.5	13	+	2 C		23		
657	CULG	09	2113	2121	2141	N16 E45	.705	17116	13.3	28	?	1 C	2121	220	3.3	
				IMP.1 NO : PALE												
	09	2231	2234	NO FLARE PATROL												
658	CULG	09	2248	2257	2330	N15 W29	.492	17095	7.8	42	+	C	2257	120	1.4	F
659	PEKG	09	2346	2406	0100	N20 W67	.913	17092	5.0	74	+	P	2355	34		D
GRP87660	09	2347	2355+0	0030D	S33	E26	.734	17110	11.9	43	+			45	.7	D
CULG	09	2347	2355	0030U	S32	E25	.718	17110	11.9	43D	+	C	2355	60	.9	
PEKG	09	2353E	2355	2355D	S34	E27	.749	17110	12.0	2D	+	P	2355	29	.4	D
661	PEKG	09	2347	2353	0010	N19 W45	.710	17093	6.6	23	+	C	2353	25	.4	D
662	CULG	10	0253U	0258U	0310U	N13 W32	.530	17095	7.7	17D	+	C	0258	140	1.7	H
663	ABST	10	0500	0502	0506	N20 W47	.734	17093	6.7	6	+	C	0502	87	1.3	E
GRP87664	10	0504+2	0507+4	0523	S25	W32	.705	17103	7.8	19	+			90	1.3	HV
CULG	10	0504	0511	0525	S21	W32	.672	17103	7.8	21	+	C	0511	120	1.7	
PEKG	10	0505	0510	0515	S25	W31	.697	17103	7.9	10	+	C	0510	67	1.0	EH
ABST	10	0506	0507	0523	S27	W33	.602	17103	7.7	17	+	C	0507	87	1.1	DV
GRP87665	10	0505+0	0510+1	0530	N12	W33	.543	17095	7.7	25	+					EH
PEKG	10	0505	0510	0540	N11	W33	.541	17095	7.7	35	+	C	0510	46	.6	E
CULG	10	0505U	0511	0520	N13	W33	.544	17095	7.7	15D	+	C	0511	140	1.7	H
666	CULG	10	0626	0627	0632	S10 W43	.721	17138	7.0	6	+	C	0627	40	.6	
667	CULG	10	0627	0629	0700U	S25 W28	.672	17103	8.2	33D	+	C	0629	140	2.0	
GRP87668	10	0651+4	0659+3	0712	N14	E55	.813	17117	14.4	21	+					FJ
CULG	10	0651	0702	0710D	N12	E55	.813	17117	14.4	19D	+	P	0702	220	3.5	F
ABST	10	0652	0659	0713	N15	E57	.832	17117	14.6	21	+	C	0659	131	2.4	FJ
CATA	10	0655	0700	0700D	N15	E54	.803	17117	14.3	5D	+	2 P	0700	56	1.0	
PURP	10	0659E	0659	0710	N14	E56	.822	17117	14.5	11D	+	C				E

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Imp	Obs Type	Area Measurement			Remarks	
							Cent Dist	Plage Region	CMP Day				Time (UT)	Appar (Disk)	Corr (Sq Deg)		
GRP87669	10	0719	0723+0	0727	N13	E54	.803	17117	14.4	8	-N					J	
ABST	10	0719	0723	0725	N13	E54	.803	17117	14.4	6	-N	C	0723	105	1.8	FJ	
PURP	10	0723E	0723	0729	N13	E55	.813	17117	14.4	6D	-B	P				E	
GRP87670	10	0722+7	0731+9	0904	N14	W85	.993	17098	3.9	102	-N			30		ADGH	
ABST	10	0722	0743	0923	N13	W80	.981	17098	4.3	121	1N	C	0743	96		ADGJ	
PEKG	10	0725	0732	0920	N13	W86	.995	17098	3.9	115	-N	C	0732	17		DH	
YUNN	10	0725	0737	0852D	N16	W90	.999	17098	3.6	87D	-N	P		32		A	
LEAR	10	0726	0828	0923	N14	W82	.986	17098	4.2	117	-N	3 C					
PURP	10	0729	0731	0903	N16	W90	.999	17098	3.6	94	-B	C					
ATHN	10	0729	0732	0927	N20	W79	.975	17098	4.4	118	-B	3 V	0732	32	1.6		
CATA	10	0740E	0740	0800	N12	W80	.981	17098	4.3	20D	-F	2 P	0740	28			
KHAR	10	0741E		0824D	N13	W90	1.000	17098	3.6	43D	-N	P				DT	
GRP87671	10	0826	0827+1	0840	N21	W69	.926	17092	5.2	14	-F					E	
LEAR	10	0826	0828	0840	N22	W69	.926	17092	5.2	14	-F	3 C		35			
KHAR	10	0827E	0827	0840D	N21	W70	.932	17092	5.1	13D	-F	P				E	
672	ABST	10	0848	0850	0856	N14	W28	.474	17095	8.3	8	-F	C	0850	105	1.0	D
GRP87673	10	0908+2	0911+4	0941	S22	E17	.554	17109	11.7	33	-F					E	
KHAR	10	0807E	0914	0930D	S23	E17	.567	17109	11.6	83D	-F	* P	0914	30	.4	E	
ABST	10	0908	0911	0941	S22	E17	.554	17109	11.7	33	1F	* C	0911	175	2.2	E	
CATA	10	0910	0915	0940	S22	E17	.554	17109	11.7	30	-F	* C	0915	67	.8		
674	KHAR	10	0936E	0936	0954D	N13	W88	.998	17098	3.8	18D	?N	P	0952			
			IMP.1 NO : CATA ABST														
675	KHAR	10	0936E	0936	0954D	N12	E54	.803	17117	14.4	18D	-F	P	0936			D
		10	1200	1205	NO FLARE PATROL												
		10	1401	1404	NO FLARE PATROL												
		10	1423	1433	NO FLARE PATROL												
		10	1444	1528	NO FLARE PATROL												
		10	1819	1824	NO FLARE PATROL												
676	PALE	10	2010E	2014U	2020	N14	E47	.727	17117	14.4	10D	-F	3 C		23		
677	CULG	10	2115	2120	2129	N08	E20	.339	17113	12.4	14	-F	C	2120	160	1.6	
678	CULG	10	2131	2136	2143	N27	W72	.944	17092	5.5	12	?F	C	2136	100		
			IMP.1 NO : BIGB														
GRP87679	10	2151+3	2202+0	2335	N11	E43	.677	17117	14.1	104	?B						
CULG	10	2151	2202U	2330	N12	E44	.690	17117	14.2	99	?B	P	2202	900	11.7		
			IMP.2 IMP.S														
BIGB	10	2154	2202	2339	N11	E42	.664	17117	14.1	105	-B	2 C	2202	180	1.9		
GRP87680	10	2236+9	2342	0002D	S13	E82	.994	17127	17.1	86	-N					EH	
			2349														
LEAR	10	2236	2342	0002	S13	E79	.988	17127	16.9	86	-N	3 C		29			
PEKG	10	2348	2349	0042	S13	E85	.998	17127	17.4	54	-N	C	2349	25		EHT	
681	PEKG	11	0022	0032	0154	S13	E84	.997	17127	17.3	92	-F	P	0037	21		D
682	PEKG	11	0022E	0037	0059	N21	W78	.971	17092	5.2	37D	-N	P	0037	13		D
683	PEKG	11	0026	0037	0104	S11	W56	.854	17138	6.8	38	-B	P	0037	84	1.6	E
684	PEKG	11	0108	0122	0150	S11	W57	.862	17138	6.8	42	-N	P	0122	55	1.1	D
GRP87685	11	0143+2	0147+4	0223	N11	E40	.638	17117	14.1	40	1B					FGHU	
			0204														
CULG	11	0143	0204U	0250U	N11	E40	.638	17117	14.1	67D	2N	C	0204	400	5.2	FH	
LEAR	11	0144	0151	0217	N10	E41	.651	17117	14.1	33	-B	3 C		116			
PEKG	11	0145	0149	0230	N11	E40	.638	17117	14.1	45	1B	C	0149	357	4.8	FU	
YUNN	11	0147E	0147	0205	N11	E40	.638	17117	14.1	18D	1N	C		193	2.6	E	
PURP	11	0149E	0149	0223	N12	E43	.677	17117	14.3	34D	1B	P				G	
686	PEKG	11	0159	0209	0215	S11	W55	.845	17138	7.0	16	-N	P	0209	63	1.2	E

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale		CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement		Remarks
							Dist	Region						(Disk)	Corr (Sq Deg)	
687	YUNN	11 0229	0234	0305	S10	W55	.843	17138	7.0	36	-F	C		48	.9	
688	PEKG	11 0330	0335	0350	S11	W57	.862	17138	6.9	20	?B	P	0335	134	2.6	E
			IMP.1	NO : CULG	PURP	YUNN										
689	CULG	11 0333U	0341U	0400U	S32	E10	.648	17110	11.9	27D	?F	C	0341	150	2.1	
			IMP.1	NO : PURP	YUNN	PEKG										
690	LEAR	11 0402	0404	0409	N11	E38	.611	17117	14.0	7	-N	3 C		39		
691	YUNN	11 0520	0523	0527	N10	E40	.638	17117	14.2	7	-F	C		64	.8	
692	CULG	11 0528U	0543	0607	S10	W58	.868	17138	6.9	39D	-N	C	0543	60	1.2	T
693	CULG	11 0558	0603	0610	N24	W80	.978	17092	5.2	12	-F	C	0603	30		
GRP87694	11 0613+5	0620+6	0644	N17	W39	.633	17095	8.3	31	1N						EGJ
ABST	11 0613	0626	0701	N17	W40	.646	17095	8.3	48	1N	C	0626	175	2.4	EJ	
CULG	11 0613	0623	0658	N18	W38	.623	17095	8.4	45	1N	C	0623	230	3.0		
LEAR	11 0617	0620	0640	N16	W40	.644	17095	8.3	23	-F	3 C		169			
PURP	11 0618	0624	0633	N17	W40	.646	17095	8.3	15	1N	P				G	
YUNN	11 0618	0622	0640	N18	W38	.623	17095	8.4	22	1N	C		161	2.1		
PEKG	11 0618	0621	0639	N17	W39	.633	17095	8.3	21	-N	C	0621	88	1.2	E	
CATA	11 0620	0620	0645	N16	W38	.618	17095	8.4	25	-F	2 C	0620	112	1.5		
GRP87695	11 0617E	0617	0805	S14	E82	.995	17127	17.4	108	1N			70		HJ	
		0750+5														
PURP	11 0617E	0617	0746	S13	E90	1.000	17127	18.0	89D	1N	C					
ISTA	11 0635E		0808	S10	E79	.986	17127	17.2	93D	-N	*					B
ABST	11 0743	0750	0801	S15	E80	.991	17127	17.3	18	1F	* C	0750	87		DJ	
PEKG	11 0745	0755	0811	S15	E85	.999	17127	17.7	26	1N	* P	0755	50		EH	
696	PURP	11 0618	0624	0633	S09	W55	.840	17138	7.1	15	?F	P				E
			IMP.1	NO : YUNN	CULG	CATA	PEKG	ABST								
GRP87697	11 0623+6	0632+0	0646	S25	W08	.547	17106	10.7	23	-F						GJ
ABST	11 0623	0632	0646	S25	W10	.555	17106	10.5	23	-F	* C	0632	148	1.8	EGJ	
CULG	11 0625	0632	0705	S23	W08	.519	17106	10.7	40	1N	* C	0632	450	4.8	F	
LEAR	11 0629	0632	0640	S25	W07	.544	17106	10.7	11	-F	* C		37			
698	CATA	11 0625	0625	0635	S27	W42	.800	17103	8.1	10	-F	2 C	0625	56	1.0	
GRP87699	11 0630>9	0638	0707	N11	E37	.598	17117	14.0	37	1N						FJKU
		0646+9														
CULG	11 0630U	0655	0710D	N11	E35	.570	17117	13.9	40D	2N	* P	0655	480	6.2	FU	
ABST	11 0631	0652	0702	N12	E37	.598	17117	14.0	31	1N	* C	0652	227	2.9	FJK	
YUNN	11 0636	0638	0650	N11	E44	.689	17117	14.6	14	-F	* C		64	.9		
LEAR	11 0643	0646	0647	N11	E38	.611	17117	14.1	4	-F	* C		58			
PEKG	11 0650	0655	0722	N11	E36	.584	17117	14.0	32	1N	* C	0656	189	2.4	E	
LEAR	11 0650	0651	0701	N13	E40	.639	17117	14.3	11	-N	* C		66			
YUNN	11 0653	0655	0700	N11	E41	.651	17117	14.4	7	-F	* C		64	.9		
CATA	11 0655	0655	0715	N12	E36	.585	17117	14.0	20	1F	* C	0655	197	2.5		
GRP87700	11 0635>9	0736	0754	S11	W56	.854	17138	7.1	79	-F						DJ
		0742														
ISTA	11 0635E		0800	S12	W55	.848	17138	7.1	85D	1N						B
ABST	11 0733	0736	0741	S12	W56	.856	17138	7.1	8	-F	C	0736	87	1.6	DJ	
ABST	11 0738	0742	0748	S11	W59	.879	17138	6.9	10	-F	C	0742	70	1.4	DJ	
PURP	11 0746E	0746	0746D	S10	W56	.851	17138	7.1		-F	C				D	
GRP87701	11 0735>9	0757	0807	N11	E40	.638	17117	14.3	32	-N						DJ
ISTA	11 0735		0812	N13	E43	.678	17117	14.5	37	1N						D
ABST	11 0754	0757	0801	N10	E38	.611	17117	14.2	7	-F	C	0757	87	1.1	DJ	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP87702	11	0820+5	0824+1 0835	0843	N11	E36	.584	17117	14.0	23	1N					EJ
PURP	11	0801	0824	0834	N12	E38	.612	17117	14.2	33	1B	C				E
ABST	11	0820	0824	0918D	N12	E35	.571	17117	14.0	58D	1N	P	0824	306	3.9	FJ
ISTA	11	0820		0842	N10	E38	.611	17117	14.2	22	2B					E
LEAR	11	0822	0824	0844	N09	E34	.555	17117	13.9	22	1N	3 C		94		
YUNN	11	0823	0825	0835	N09	E35	.569	17117	14.0	12	1N	C		96	1.2	
CATA	11	0825	0835	0850	N11	E35	.570	17117	14.0	25	1F	2 C	0835	197	2.5	
KANZ	11	0833E		0846	N11	E35	.570	17117	14.0	13D	1N	1				
703 PEKG	11	0836E	0836	0857	S13	E79	.988	17127	17.3	21D	1N	P	0837	25		EH
704 KHAR	11	0915E	0917	1045D	S11	W60	.886	17138	6.9	90D	2N	P	0920	220	4.9	EH
IMP.1 NO : YUNN PURP																
705 KHAR	11	0918E	0920	0940D	N07	E14	.240	17113	12.4	22D	1F	P	0918			D
GRP87706	11	0918+8	0953+0	1005D	S14	E79	.988	17127	17.3	47	1N			180		EJK
KHAR	11	0918E	0953	1045D	S14	E80	.991	17127	17.4	87D	1F	* P	0958	200		E
ABST	11	0926	0953	1001D	S15	E76	.980	17127	17.1	35D	1N	* P	0953	175		FJK
PEKG	11	1003E	1003	1005	S13	E79	.988	17127	17.3	2D	1N	* P	1003	42		E
707 KHAR	11	0948E	0948	0959D	N30	W85	.990		5.0	11D	1N	P	0948			D
708 KHAR	11	0948E	0954	1003D	N22	W86	.994	17092	5.0	15D	1F	P	1000			D
709 KHAR	11	1041E	1042	1045D	N08	E08	.139	17113	12.0	4D	1F	P	1042			D
GRP87710	11	1327+3	1335	1346	N11	E34	.556	17117	14.1	19	1N					
KANZ	11	1327	1335	1346	N12	E34	.557	17117	14.1	19	1N	2				
CATA	11	1330	1330	1330D	N11	E34	.556	17117	14.1		1F	2 P	1330	56	.7	
711 KANZ	11	1420	1420	1444	S14	W59	.885	17138	7.2	24	1N	2				
712 HOLL	11	1524	1527	1533	N13	E34	.558	17117	14.2	9	1N	3 C		39		
GRP87713	11	2214+1	2217+0	2228	N10	E28	.467	17117	14.0	14	1B					H
CULG	11	2214	2217	2228	N10	E28	.467	17117	14.0	14	1B	C	2217	240	2.8	H
BIGB	11	2215	2217	2228	N10	E28	.467	17117	14.0	13	1B	2 C	2217	90	1.1	
714 CULG	11	2301	2306	2314	S18	W21	.540	17119	10.4	13	1F	C	2306	100	1.2	G
715 PEKG	11	2316	2320	2335	S13	E69	.948	17127	17.1	19	1N		2320	46		D
716 LEAR	11	2336	2342	0002	S13	E79	.988	17127	17.9	26	1N	3 C		29		
717 CULG	11	2350	2352	2358	S09	W65	.919	17138	7.1	8	1F	C	2352	20		
718 PEKG	12	0001	0007	0029	S10	W67	.933	17138	7.0	28	1F	P	0007	25		EK
719 PEKG	12	0012	0014	0018	N19	W71	.938	17093	6.7	6	1F	C	0014	21		D
720 PEKG	12	0013	0014	0015	N11	E25	.422	17117	13.9	2	1N	C	0014	38	.4	D
GRP87721	12	0045+2	0049+4	0130	N20	W71	.938	17093	6.7	45	1F			70		E
CULG	12	0045	0053	0143	N23	W71	.938	17093	6.7	58	1F	C	0053	90		
BIGB	12	0047	0049	0115D	N20	W67	.913	17093	7.0	28D	1N	2 P	0049	50		
PEKG	12	0114E	0114	0117	N20	W71	.938	17093	6.7	3D	1F	P	0114	29		E
GRP87722	12	0108+2	0114+6 0125	0142	N11	E25	.422	17117	13.9	34	1N			90	1.0	EW
PEKG	12	0108	0114	0123	N11	E25	.422	17117	13.9	15	1N	C	0114	105	1.2	E
CULG	12	0110	0115	0142	N12	E24	.409	17117	13.8	32	1F	C	0115	70	.8	W
PURP	12	0119	0120	0131	N11	E25	.422	17117	13.9	12	1B	C				E
PURP	12	0124	0125	0157	N12	E25	.424	17117	13.9	33	1N	C				E
GRP87723	12	0151+8	0202+5	0220	N12	E24	.409	17117	13.9	29	1N			130	1.4	EL
PEKG	12	0151	0202	0220	N13	E24	.412	17117	13.9	29	1N	* C	0202	84	.9	E
YUNN	12	0154	0207	0210D	N11	E24	.406	17117	13.9	16D	1N	* C		161	1.8	
CULG	12	0158	0203	0223	N12	E24	.409	17117	13.9	25	1B	* C	0203	150	1.7	L
MITK	12	0159	0204	0214	N12	E25	.424	17117	14.0	15	1N	* C	0204			

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
724	CULG	12 0155	0211	0227	S22	W20	.576	17106	10.6	32	F	C	0211	60	.8	
GRP87725	12 0214+6	0226+9	0308	N08	E02	.037	17113	12.2	54	N						EL
	CULG	12 0214	0229	0315	N08	E02	.037	17113	12.2	61	F	C	0229	210	2.1	L
	PEKG	12 0219	0226	0255	N09	E01	.035	17113	12.2	36	F	C	0226	46	.5	E
	MITK	12 0220	0230	0311	N08	E03	.054	17113	12.3	51	N	C	0230			EL
	PURP	12 0232	0235	0304	N08	E02	.037	17113	12.3	32	N	C				E
726	CULG	12 0310	0311	0321	N13	E23	.396	17117	13.9	11	N	C	0311	60	.7	
GRP87727	12 0507+0	0508+0	0531	N11	E22	.375	17117	13.9	24	N				80	.9	D
	CULG	12 0507	0508	0522	N12	E22	.378	17117	13.9	15	F	C	0508	60	.7	
	LEAR	12 0507E	0508	0540	N11	E22	.375	17117	13.9	330	B	3 C		97		D
728	LEAR	12 0515	0517	0524	S14	E64	.920	17127	17.0	9	F	3 C		14		
GRP87729	12 0545+3	0547+6	0609	N12	E23	.393	17117	14.0	24	N				170	1.9	EHJY
	CULG	12 0545	0550	0617	N12	E22	.378	17117	13.9	32	N	C	0550	230	2.5	
	MITK	12 0545	0547	0604	N11	E23	.391	17117	14.0	19	N	C	0547			EH
	ABST	12 0545E	0548	0618	N11	E21	.359	17117	13.8	330	N	P	0548	183	2.0	EJ
	LEAR	12 0547E	0550	0552D	N13	E27	.457	17117	14.3	50	B	3 C		155		
	TACH	12 0548	0550	0559	N12	E22	.378	17117	13.9	11	B	C	0550	133	1.5	DY
	YUNN	12 0550E	0553	0555D	N12	E23	.393	17117	14.0	50	N	P		161	1.8	
	PURP	12 0555E	0555	0606	N12	E23	.393	17117	14.0	110	B	C				E
GRP87730	12 0633	0638	0711	N12	E26	.439	17117	14.2	38	N				80	.9	DJ
			0658+1													
	ABST	12 0556	0658	0711	N13	E27	.457	17117	14.3	75	N	C	0658	96	1.1	DJ
	CULG	12 0633	0638	0647	N12	E26	.439	17117	14.2	14	F	C	0638	50	.6	
	CULG	12 0657	0659	0710	N12	E26	.439	17117	14.2	13	N	C	0659	60	.7	
731	KANZ	12 0729		0733D	N13	E20	.350	17117	13.8	40	F	1				
732	LEAR	12 0737	0738	0742	N11	E21	.359	17117	13.9	5	F	3 C		36		
GRP87733	12 0742>9	0748+6	0809	N12	E20	.347	17117	13.8	27	1F				200	2.1	FHJL
			0800+4													
	YUNN	12 0742	0748	0800	N12	E21	.362	17117	13.9	18	F	C		80	.9	
	LEAR	12 0748	0804	0807D	N12	E26	.439	17117	14.3	190	N	3 C		202		
	ABST	12 0750E	0754	0827	N11	E20	.344	17117	13.8	370	N	P	0754	183	2.0	FJ
	MITK	12 0752		0801D	N12	E21	.362	17117	13.9	90	F	P	0759			
	CATA	12 0755	0800	0815	N12	E20	.347	17117	13.8	20	1F	2 C	0800	197	2.2	H
	KANZ	12 0812E		0812D	N13	E20	.350	17117	13.8		N	1				L
734	LEAR	12 0820	0829	0836	N06	E01	.028	17113	12.4	16	F	3 C		48		
735	ABST	12 0927	0943	0956D	N09	W02	.046	17113	12.2	29D	F	P	0943	175	1.7	E
		12 1126	1139	NO FLARE PATROL												
GRP87736	12 1222	1245	1305	N08	W04	.070	17113	12.2	43	N						
	KANZ	12 1222	1245	1306	N08	W04	.070	17113	12.2	44	N	2				
	WEND	12 1231E		1303	N08	W04	.070	17113	12.2	32D	N	C	1235	110	1.1	
GRP87737	12 1226	1249	1312	N11	E19	.328	17117	13.9	46	F						
	KANZ	12 1226	1249	1325	N11	E20	.344	17117	14.0	59	F	2				
	WEND	12 1247E		1258	N11	E19	.328	17117	14.0	110	F	C	1253	60	.7	
		12 1342	1353	NO FLARE PATROL												
738	WEND	12 1412	1414	1424	N11	E18	.312	17117	13.9	12	N	C	1414	20	.2	D
GRP87739	12 1500	1506	1543	N11	E19	.328	17117	14.0	43	F						E
	WEND	12 1500	1506	1543	N12	E20	.347	17117	14.1	43	F	C	1506	106	1.2	E
	HUAN	12 1519E		1527D	N10	E18	.309	17117	14.0	80	F	1 P	1524	30	.3	
740	CULG	12 2106	2116	2137	N18	W63	.884	17095	8.2	31	N	C	2116	60	1.2	
741	CULG	12 2218	2230U	2317	S22	W32	.680	17106	10.5	59	F	C	2230	70	1.0	F
742	CULG	12 2226	2231	2240	N12	E12	.221	17117	13.8	14	N	C	2231	120	1.2	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Cmd	Hale Cen Dist	Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks	
743	CULG	12 2229	2252	2319	S07	W88	1.000	17138	6.3	50	F	C	2252	20			
744	CULG	12 2320	2335U	0026	S16	W34	.655	17119	10.4	66	N	C	2335	120	1.5	GH	
745	CULG	13 0126	0130	0136	S18	W34	.669	17119	10.5	10	N	C	0130	40	.5		
GRP87746	13 0158+6	0204+2	0221	N18	W63	.884	17095	8.4	23	1N				150	3.4	E	
MITK	13 0158	0206	0221	N18	W63	.884	17095	8.4	23	1N	C	0206	110	2.4	E		
LEAR	13 0201	0204	0222	N18	W63	.884	17095	8.4	21	N	3 C		101				
CULG	13 0201	0206	0220	N17	W68	.920	17095	8.0	19	1N	C	0206	180	4.0	F		
VORO	13 0204	0206	0233D	N18	W64	.892	17095	8.3	290	1F	P	0206	224	4.8	E		
YUNN	13 0204	0206	0213	N19	W62	.877	17095	8.4	9	1N	C		161	3.4			
747	CULG	13 0223	0227	0233	S11	W89	1.000	17138	6.4	10	F	C	0227	30			
748	CULG	13 0311	0320	0338	S38	W13	.729	17110	12.2	27	F	C	0320	60	.9	G	
749	LEAR	13 0315	0317	0323	S14	E53	.836	17127	17.1	8	F	3 C		22			
750	LEAR	13 0340	0342	0344	N11	E11	.199	17117	14.0	4	F	3 C		22			
751	LEAR	13 0340	0342	0351	S14	E54	.845	17127	17.2	11	F	3 C		28			
752	CULG	13 0344	0352	0436	S12	W16	.422	17139	12.0	52	N	C	0352	250	2.8		
			IMP.1 NO : PURP														
GRP87753	13 0517+4	0522+4	0532	S11	E51	.808	17127	17.0	15	N				110	1.8	L	
CULG	13 0517	0526	0542	S11	E50	.799	17127	17.0	25	1N	C	0526	120	2.0			
MITK	13 0519	0524	0532	S11	E52	.818	17127	17.1	13	N	C	0524			E		
TACH	13 0520	0524	0530	S12	E53	.830	17127	17.2	10	1F	C	0524	203	3.6	DL		
YUNN	13 0521	0522	0531	S11	E49	.789	17127	16.9	10	N	C		80	1.3			
LEAR	13 0521	0524	0534	S11	E52	.818	17127	17.1	13	F	3 C		108				
754	LEAR	13 0836	0839	0847	N11	E11	.199	17117	14.2	11	F	3 C		25			
GRP87755	13 0842+1	0845	0909	N06	W16	.275	17113	12.2	27	F							
		0852															
YUNN	13 0842	0852	0921	N08	W16	.274	17113	12.2	39	F	C		161	1.7			
LEAR	13 0843	0845	0909	N06	W16	.275	17113	12.2	26	F	3 C		37				
KANZ	13 0901E		0908	N05	W15	.260	17113	12.3	7D	F	1						
756	YUNN	13 0931E	0931	0936	N16	W70	.933	17095	8.1	5D	F	P		48			
757	YUNN	13 0936	0941	0945D	N20	E53	.797	17121	17.4	9D	F	P		80	1.3	G	
758	KHAR	13 1004E		1150D	N08	W14	.240	17113	12.4	106D	N	P	1104	110	1.2	E	
759	RAMY	13 1309	1309	1313	S10	E47	.765	17127	17.1	4	F	3 C		23			
760	HUAN	13 1728	1730	1739	S14	E44	.750	17127	17.0	11	N	1 C	1730	60	.9	E	
GRP87761	13 1854+1	1856	1903	S09	E43	.717	17127	17.0	9	F							
HUAN	13 1854		1900	S09	E44	.728	17127	17.1	6	F	1 C				E		
PALE	13 1855	1856	1905D	S09	E43	.717	17127	17.0	10D	F	3 C		77		D		
	13 1907	1912	NO FLARE PATROL														
762	HUAN	13 1913E		1918D	N14	E03	.129	17117	14.0	5D	N	1 P	1914	40	.4		
	13 1946	2000	NO FLARE PATROL														
	13 2010	2109	NO FLARE PATROL														
763	CULG	13 2132	2142	2154	S12	E40	.697	17127	16.9	22	F	C	2142	70	1.0		
764	CULG	13 2139	2147	2152	N14	E02	.123	17117	14.1	13	N	C	2147	60	.6	KH	
765	CULG	13 2154	2208	2220	N15	W78	.973	17095	8.1	26	F	C	2208	60			
	13 2214	2218	NO FLARE PATROL														
766	PURP	14 0015	0025	0026	S09	E05	.292	17130	14.4	11	N	C					

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Cmd	Hale Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
767	CULG	14 0115	0120	0138	S10	E30	.566	17120	16.3	23	-N	C	0120	60	.7	H
768	CULG	14 0232	0242	0305	S10	E29	.554	17120	16.3	33	-N	C	0242	160	1.9	H
769	CULG	14 0252	0258	0319	N24	W77	.967	17096	8.3	27	?F	C	0258	70		
			IMP.1 NO : PURP													
GRP87770	14 0256+5	0303+0	0309	N15	W01	.136	17117	14.0	13							
	CULG	14 0256	0303	0311	N15	W01	.136	17117	14.0	15	-N	C	0303	140	1.4	
	PURP	14 0301	0303	0307	N15	W01	.136	17117	14.1	6	-N	C				
771	CULG	14 0326	0332	0340	S48	E19	.845		15.6	14	-F	C	0332	60	.6	G
772	CULG	14 0401	0407	0423	N11	W04	.095	17117	13.9	22	-F	C	0407	100	1.0	
773	ABST	14 0532E	0537	0538D	N07	W26	.435	17113	12.3	60	-F	P	0537	79	.9	D
GRP87774	14 0548+3	0552+3	0616	N09	W26	.435	17113	12.3	28					180	2.0	EL
	CULG	14 0548	0553	0619	N10	W27	.451	17113	12.2	31	-N	C	0553	190	2.1	L
	ABST	14 0551	0554	0614D	N09	W26	.435	17113	12.3	23D	-N	P	0554	227	2.6	E
	LEAR	14 0551	0555	0614	N09	W26	.435	17113	12.3	23	-N	3 C		128		
	PURP	14 0552E	0552	0613	N09	W25	.420	17113	12.4	21D	-N	P				E
	CATA	14 0605E	0605	0620	N08	W26	.435	17113	12.3	15D	-F	2 P	0605	112	1.3	
775	CULG	14 0634	0638	0646	N07	W26	.435	17113	12.3	12	-N	C	0638	80	.9	T
GRP87776	14 0652+2	0656+0	0701	S12	E38	.674	17127	17.1	9					110	1.5	
	CULG	14 0652	0656	0703	S13	E38	.680	17127	17.1	11	-B	C	0656	140	2.0	
	LEAR	14 0653	0656	0701	S12	E38	.674	17127	17.1	8	-F	3 C		58		
	BUCA	14 0654	0656	0700	S12	E37	.663	17127	17.1	6	-N	C	0656	107	1.5	
777	CATA	14 0710	0710	0715	N14	W04	.136	17117	14.0	5	-F	2 C	0710	56	.6	
778	ABST	14 0734	0742	0747	N11	W05	.108	17117	13.9	13	-F	C	0742	87	.9	DJ
GRP87779	14 0822+3	0824+6	0840	N15	W04	.151	17117	14.0	18					70	.7	DJ
	ABST	14 0822E	0824	0835D	N15	W04	.151	17117	14.0	13D	-F	P	0824	87	.9	DJ
	CATA	14 0825	0830	0835D	N14	W04	.136	17117	14.1	10D	-F	2 P	0830	56	.6	
	ISTA	14 0825E		0840	N15	W04	.151	17117	14.1	15D	-N					D
780	CATA	14 1050	1100	1110	N14	W06	.156	17117	14.0	20	-F	2 C	1100	67	.7	
GRP87781	14 1126+2	1128+3	1153	N15	W06	.169	17117	14.0	27					80	.8	
			1141													
	RAMY	14 1126	1141	1152	N15	W06	.169	17117	14.0	26	-N	3 C		81		
	ATHN	14 1128	1131	1153	N15	W06	.169	17117	14.0	25	-B	3 V	1131	64	.7	
	CATA	14 1128	1128	1147D	N14	W06	.156	17117	14.0	19D	-F	2 P	1128	112	1.2	
		14 1401	1409	NO FLARE PATROL												
		14 1413	1417	NO FLARE PATROL												
782	RAMY	14 1429	1429	1434	N12	W08	.160	17117	14.0	5	-F	3 C		45		
		14 1451	1532	NO FLARE PATROL												
		14 2027	2037	NO FLARE PATROL												
783	HOLL	14 2040	2041	2053	N15	W13	.258	17117	13.9	13	-N	3 C		21		
		14 2211	2233	NO FLARE PATROL												
784	LEAR	15 0005	0007	0010	S10	E19	.432	17120	16.4	5	-F	3 C		40		
785	PEKG	15 0422	0424	0431	N16	W16	.308	17117	14.0	9	-N		0424	176	1.9	E
786	LEAR	15 0646	0648	0700	N06	W40	.639	17113	12.3	14	-F	3 C		38		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Imp	Obs Type	Area Measurement			Remarks	
							Dist	Plage	Reglon				Time (UT)	Appar (Disk)	Corr (Sq Deg)		
GRP87787	15	0725+4	0726+9 0750+1	0752	S11	E13	.380	17120	16.3	27	1N					FHK	
YUNN	15	0725	0726	0737D	S11	E13	.380	17120	16.3	12D	-N	P		193	1.9		
PEKG	15	0728	0730	0758	S11	E13	.380	17120	16.3	30	1B		0730	315	3.5	FH	
ABST	15	0729	0731	0800	S11	E15	.399	17120	16.4	31	1N	C	0731	253	2.8	FK	
LEAR	15	0729	0731	0749	S10	E14	.377	17120	16.4	20	1B	3	C		290		
MITK	15	0729	0732	0740	S11	E14	.390	17120	16.4	11	1B	C	0732	260	2.9	H	
PURP	15	0730E	0730	0743	S10	E13	.367	17120	16.3	13D	1B	C					
ATHN	15	0732E	0734	0745	S12	E12	.385	17120	16.2	13D	-N	3	V	0734	48	.5	
CATA	15	0735	0735	0750	S11	E14	.390	17120	16.4	15	-F	2	C	0735	140	1.6	
CATA	15	0745	0750	0805	S10	E13	.367	17120	16.3	20	-F	*	C	0750	84	.9	
LEAR	15	0750	0751	0755	S08	E14	.353	17120	16.4	5	-F	*	C		28		
GRP87788	15	0840+7	0844+6	0922	N08	W41	.651	17113	12.3	42	1N			290	3.8		
CATA	15	0840	0850	0930	N06	W40	.639	17113	12.4	50	1F	2	C	0850	281	3.8	
YUNN	15	0843E	0844	0845D	N08	W42	.664	17113	12.2	2D	1N	P		369	5.0		
PEKG	15	0844	0847	0917	N08	W41	.651	17113	12.3	33	1B		0847	315	4.2	F	
LEAR	15	0845	0847	0923	N08	W42	.664	17113	12.2	38	1B	3	C		265		D
ABST	15	0847	0849	0950	N08	W41	.651	17113	12.3	63	1N	C	0849	288	3.9	E	
PURP	15	0847	0848	0915	N09	W39	.624	17113	12.4	28	1N	C					
WEND	15	0848E		0917D	N08	W41	.651	17113	12.3	29D	-N	C	0849	81	1.1	E	
789 ATHN	15	1003E	1007	1022	N10	W40	.638	17113	12.4	19D	-N	3	V	1007	127	1.7	
GRP87790	15	1140+5	1142+4	1151	N15	W20	.360	17117	14.0	11	-N			80	.9	E	
RAMY	15	1140	1142	1151	N15	W19	.345	17117	14.1	11	-B	3	C		136		
WEND	15	1140		1151	N17	W22	.400	17117	13.8	11	-N	C	1144	62	.7	E	
ATHN	15	1143E	1146	1151	N16	W19	.351	17117	14.1	8D	-B	3	V	1146	111	1.2	
CATA	15	1145	1145	1155	N15	W21	.375	17117	13.9	10	-F	2	C	1145	56	.6	
	15	1619	1624	NO FLARE PATROL													
791 HOLL	15	1805E	1806U	1815	S10	E14	.377	17127	16.8	10D	-N	3	C		90		
	15	1906	1911	NO FLARE PATROL													
	15	2008	2011	NO FLARE PATROL													
	15	2039	2048	NO FLARE PATROL													
792 VORO	15	2347	2349	2353	S33	E75	.989	17142	21.6	6	-F	C	2349	27		DJ	
	16	0019	0024	NO FLARE PATROL													
GRP87793	16	0203E	0203 0248	0306D	N38	W14	.549	17143	15.0	63	-N						EK
PEKG	16	0203E	0203	0306D	N38	W14	.549	17143	15.0	63D	-N	C	0203	34	.4	EK	
PEKG	16	0203E	0248	0306D	N38	W14	.549	17143	15.0	63D	-F	C	0248	38	.4	E	
794 PEKG	16	0244	0246	0248	S32	E73	.984	17142	21.6	4	-F	C	0246	13		D	
795 ABST	16	0504	0505	0511	S33	E70	.976	17142	21.5	7	?F	C	0505	87		DV	
			IMP.1 NO : MITK														
GRP87796	16	0611+0	0612+0	0616	N15	W29	.492	17117	14.1	5	-F			70	.8	DV	
ABST	16	0611	0612	0615	N15	W30	.506	17117	14.0	4	-N	C	0612	87	1.0	DV	
LEAR	16	0611	0612	0616	N15	W28	.478	17117	14.2	5	-F	3	C		56		
GRP87797	16	0701+1	0707	0719	N15	W29	.492	17117	14.1	18	-N						E
HTPR	16	0701	0707	0720	N14	W30	.504	17117	14.0	19	-N	C	0707	100	1.1	E	
WEND	16	0702		0717	N16	W29	.495	17117	14.1	15	-N	C	0708	25	.3	E	
GRP87798	16	0717+4	0720+1	0726	S11	E01	.313	17120	16.4	9	-N			40	.4		
I STA	16	0717		0725	S11	E02	.314	17120	16.5	8	1B					D	
HTPR	16	0719	0720	0730	S12	E02	.330	17120	16.5	11	-B	C	0720	50	.5	E	
LEAR	16	0720	0721	0725	S11	E01	.313	17120	16.4	5	-N	3	C		39		
WEND	16	0721		0727D	S11	E01	.313	17120	16.4	6D	-N	C	0723	19	.2		
799 ABST	16	0810	0814	0830	N37	W17	.553	17143	15.1	20	-N	C	0814	87	1.1	FJ	
800 HTPR	16	0822	0826	0835	S13	E13	.406	17127	17.3	13	-N	C	0826	30	.3	E	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Cmd	Hale Cen Dist	Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP87801	16	0830+5	0830 0836+2	0843	N15	W31	.521	17117	14.0	13	-N			60	.7	J
CATA	16	0830	0830	0840	N14	W31	.518	17117	14.0	10	+F	2 C	0830	56	.7	
HTPR	16	0833	0838	0842	N15	W31	.521	17117	14.0	9	-B	C	0838	60	.7	E
ABST	16	0834	0836	0842	N15	W32	.535	17117	14.0	8	-N	C	0836	122	1.5	DJ
WEND	16	0834		0845D	N16	W29	.495	17117	14.2	11D	-N	C	0837	50	.6	
LEAR	16	0835	0838	0846	N15	W30	.506	17117	14.1	11	+F	3 C		52		
802 ABST	16	0849	0850	0904	N17	E47	.730	17141	19.9	15	-N	C	0850	87	1.3	DV
GRP87803	16	0849+9	0913+2	0922	N13	W31	.516	17117	14.0	33	-N			90	1.1	DJ
ABST	16	0849	0915	0923D	N12	W29	.484	17117	14.2	34D	-N	P	0915	87	1.0	DJ
ABST	16	0913	0913	0921	N15	W33	.549	17117	13.9	8	-N	C	0913	87	1.1	DJ
804 ABST	16	0929	0929	0933D	N16	W27	.467	17117	14.4	4D	+F	P	0929	87	1.0	DJV
805 ABST	16	0956E	0956	1006D	N37	W18	.559	17143	15.1	10D	+F	P	0956	105	1.3	EJ
806 HTPR	16	1019	1021	1027	S13	E10	.383	17127	17.2	8	+F	C	1021	30	.3	E
807 HTPR	16	1020	1024	1158	N38	W18	.571	17143	15.1	98	+F	C	1024	20	.2	
808 WEND	16	1034E		1059D	S32	E71	.978	17142	21.8	25D	-N	C	1040	19		E
GRP87809	16	1225	1227 1233	1250	N12	W30	.499	17117	14.3	25	-N			35	.4	
HTPR	16	1225	1227	1250	N12	W30	.499	17117	14.3	25	+F	C	1233	40	.4	
HTPR	16	1225	1233	1250	N12	W30	.499	17117	14.3	25						
WEND	16	1228E		1243D	N13	W30	.501	17117	14.3	15D	+F	C	1236	25	.3	
810 CATA	16	1250	1250	1255	N17	W31	.527	17117	14.2	5	+F	2 C	1250	56	.7	
GRP87811	16	1454+0	1457+2	1508	S12	W01	.329	17120	16.5	14	+F			50	.5	E
HTPR	16	1454	1459	1506	S12	W02	.330	17120	16.5	12	-N	C	1459	60	.6	E
HOLL	16	1454	1457	1509	S13	W01	.346	17120	16.5	15	+F	3 C		38		
	16	1612	1620	NO FLARE PATROL												
812 HOLL	16	1640	1641	1646	N37	W25	.609	17143	14.8	6	-N	3 C		29		
813 HOLL	16	1645	1655	1659	N13	W35	.572	17117	14.1	14	-N	3 C		30		
814 HOLL	16	1759	1809	1827	S13	W02	.347	17120	16.6	28	-N	3 C		39		
GRP87815	16	1850+5	1855+1	1859	N13	W36	.586	17117	14.1	9	+F			30	.4	
HOLL	16	1850	1855	1859	N13	W36	.586	17117	14.1	9	+F	3 C		31		
HUAN	16	1855	1856	1858	N13	W37	.600	17117	14.0	3	-N	1 C	1856	30	.4	
816 HOLL	16	1912	1912	1922	S11	W02	.314	17120	16.6	10	+F	3 C		21		
817 HOLL	16	2015	2019	2032	S11	E04	.319	17127	17.1	17	+F	3 C		52		
818 HOLL	16	2041	2049	2154	S13	E05	.355	17127	17.2	73	-B	3 C		186		
	16	2127	2129	NO FLARE PATROL												
819 HOLL	16	2203	2209	2224	S12	W05	.339	17120	16.5	21	-N	3 C		37		
820 HOLL	16	2307	2308	2317	S13	W06	.359	17120	16.5	10	-N	3 C		37		
821 HOLL	16	2321	2323	2354	S11	E02	.314	17127	17.1	33	-N	3 C		38		
GRP87822	16	2339+0	2341+0	2346	N06	W64	.895	17113	12.2	7	+F			25	.6	DJ
VORO	16	2339	2341	2346	N07	W65	.902	17113	12.1	7	+F	C	2341	18		DJ
HOLL	16	2339	2341	2345	N05	W63	.888	17113	12.3	6	+F	3 C		26		
823 HOLL	16	2350	2351	0000	N12	W35	.571	17117	14.4	10	-N	3 C		31		
824 HOLL	17	0030	0032	0036	S12	E03	.332	17127	17.2	6	+F	3 C		57		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Cmd	Hale Cen Dist	Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP87825	17	0221+2	0225+0	0233	S12	E01	.329	17127	17.2	12	-F			80	.8	
YUNN	17	0221	0225	0230D	S13	E00	.345	17127	17.1	9D	-F	P		64	.7	E
VORO	17	0223	0225	0233	S12	E02	.330	17127	17.2	10	-F	C	0225	108	1.2	D
GRP87826	17	0341+4	0344+6	0358	N16	E36	.592	17141	19.9	17	-N					G
YUNN	17	0341E	0344	0357	N16	E36	.592	17141	19.9	16D	-F	P		80	1.0	G
PURP	17	0345	0350	0359	N17	E36	.594	17141	19.9	14	1N	C				G
GRP87827	17	0459	0503+3	0517	S12	W07	.349	17120	16.7	18	-N					F
LEAR	17	0459	0503	0517	S12	W09	.361	17120	16.5	18	-F	3 C		43		
PEKG	17	0505E	0506	0514D	S12	W05	.339	17120	16.8	9D	1B	P	0506	244	2.6	F
GRP87828	17	0506	0507	0522	S12	W38	.674	17130	14.4	16	-F					E
LEAR	17	0506	0507	0522	S09	W39	.670	17130	14.3	16	-F	3 C		36		
PEKG	17	0514E	0514	0514D	S16	W37	.686	17130	14.4		-N	P	0514	59	.8	E
829 PEKG	17	0506	0507	0511	S34	E64	.957	17142	22.0	5	-F	P	0506	17		D
830 PEKG	17	0514E	0514	0514D	N05	W42	.667		14.1		-F	P	0514	21	.3	E
GRP87831	17	0615+5	0620+5	0640	N09	W67	.915	17113	12.2	25	1N			110		G
BUCA	17	0615	0622	0650	N10	W66	.908	17113	12.3	35	-N	C	0622	86	2.0	G
LEAR	17	0615	0620	0659	N08	W67	.916	17113	12.2	44	-N	3 C		112		
YUNN	17	0616	0620	0634	N10	W68	.922	17113	12.2	18	1N	C		96	2.3	G
CATA	17	0620E	0625	0630	N07	W66	.909	17113	12.3	10D	1F	2 P	0625	140		
PURP	17	0620	0625	0634	N09	W68	.922	17113	12.2	14	1N	P				G
I STA	17	0620E		0628	N11	W67	.915	17113	12.2	8D	1B					G
YUNN	17	0643E	0643	0647	N10	W67	.915	17113	12.3	4D	1N	C		113	2.6	G
GRP87832	17	0653+7	0705+9	0752	S11	W04	.319	17127	17.0	59	1N			270	2.8	
LEAR	17	0653	0710	0758	S12	W03	.332	17127	17.1	65	-N	3 C		188		
BUCA	17	0655	0708	0800	S10	W04	.303	17127	17.0	65	1N	C	0708	322	3.5	
YUNN	17	0656	0715	0745	S11	W05	.323	17127	16.9	49	1N	C		274	3.0	
CATA	17	0700	0705	0745	S12	W04	.335	17127	17.0	45	1F	2 C	0705	225	2.5	
PURP	17	0710	0713	0728D	S11	W05	.323	17127	16.9	18D	2N	C	0713	491	5.2	
833 LEAR	17	0701	0701	0711	S35	E63	.955	17142	22.0	10	-F	3 C				
834 HTPR	17	0927	0937	1006	S14	W13	.419	17120	16.4	39	-F	C	0937	30	.3	E
835 HTPR	17	0937	0940	0950	S12	W05	.339	17127	17.0	13	-F	C	0940	20	.2	
GRP87836	17	1017+2	1018+1	1026	S12	W07	.349	17127	16.9	9	-N			30	.3	
HTPR	17	1017	1018	1026	S12	W06	.343	17127	17.0	9	-N	C	1018	40	.4	
WEND	17	1019	1019	1025D	S12	W08	.355	17127	16.8	6D	-N	C	1019	19	.2	
837 HTPR	17	1153	1156	1205	S12	W13	.393	17120	16.5	12	-N	C	1156	60	.6	E
GRP87838	17	1319+9	1347+2	1407	S14	W16	.446	17120	16.4	48	-F			50	.6	E
HTPR	17	1319		1356D	S14	W16	.446	17120	16.4	37D	-F	C	1330	30	.3	
RAMY	17	1329	1347	1408	S14	W15	.437	17120	16.4	39	-F	3 C		39		
HTPR	17	1340	1349	1405	S13	W17	.443	17120	16.3	25	-N	C	1349	60	.6	E
839 HTPR	17	1353	1354	1359	S15	W05	.386	17127	17.2	6	-N	C	1354	20	.2	
GRP87840	17	1356+7	1403+3	1419	N17	E29	.499	17141	19.8	23	-N			60	.7	DG
HTPR	17	1356	1405	1435	N15	E28	.478	17141	19.7	39	-B	C	1405	60	.6	
LVOV	17	1401	1405	1420	N17	E30	.513	17141	19.8	19	-N	C	1405	100	1.2	DG
HOLL	17	1402	1406	1416	N17	E29	.499	17141	19.8	14	-B	3 C		36		
KANZ	17	1403	1403	1417	N17	E29	.499	17141	19.8	14	-N	1				
841 HTPR	17	1450		1456D	S12	W10	.368	17127	16.9	6D	-F	C	1453	30	.3	
842 RAMY	17	1617	1619	1636	S13	W17	.443	17120	16.4	19	-F	3 C		41		
GRP87843	17	1800+9	1820+8	1920	S11	W08	.340	17127	17.2	80	1N			230	2.5	U
HOLL	17	1800	1820	1940	S11	W08	.340	17127	17.2	100	1B	3 C		265		
HUAN	17	1817	1828	1914	S12	W07	.349	17127	17.2	57	1N	1 C	1828	200	2.2	U
PALE	17	1834E	1843U	1920	S10	W09	.332	17127	17.1	46D	-F	3 C		170		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Gen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
844	HOLL	17 1817	1829	1844	N11	W47	.726	17117	14.2	27	-F	3 C		35		
845	HOLL	17 2044	2058	2104	S15	W07	.395	17127	17.3	20	-F	3 C		29		
846	PEKG	18 0041	0046	0046D	S08	W52	.809	17130	14.1	5D	-N	P	0046	42	.7	EH
847	PEKG	18 0043	0045	0048	N21	W22	.429	17121	16.4	5	-N	C	0045	46	.5	E
848	PEKG	18 0111	0113	0116	S09	W53	.821	17130	14.1	5	-N	P	0113	21	.2	EK
GRP87849	LEAR	18 0119+6	0133+8	0216	S11	W12	.370	17127	17.2	57	-N					D
	PURP	18 0119E	0133	0155	S10	W11	.348	17127	17.2	36D	-N	3 C		93		
	VORO	18 0123	0137	0216	S11	W12	.370	17127	17.2	53	1N	C				D
	PEKG	18 0124	0141	0240	S14	W12	.362	17127	17.2	76	-F	C	0141	36	.4	D
	PEKG	18 0125	0138	0215	S12	W12	.384	17127	17.2	50	1N	C	0138	210	2.4	F
850	PEKG	18 0138E	0138U	0140D	S09	W53	.821	17130	14.1	2D	-N	P	0138	84	1.5	
851	PEKG	18 0259	0300	0315	S13	W12	.397	17127	17.2	16	-F	C	0300	21	.2	E
GRP87852	PEKG	18 0428+1	0430+0	0436	S13	W13	.406	17127	17.2	8	-F			45	.5	D
	LEAR	18 0428	0430	0437	S13	W13	.406	17127	17.2	9	-N	C	0430	55	.6	D
	LEAR	18 0429	0430	0434	S14	W13	.419	17127	17.2	5	-F	3 C		25		
853	PEKG	18 0429	0430	0431	N11	W53	.792	17117	14.2	2	-N	C	0430	26	.4	D
GRP87854	LEAR	18 0429+1	0431+1	0446	S13	W24	.518	17120	16.4	17	-F			50	.6	E
	PEKG	18 0429	0432	0441	S13	W25	.530	17120	16.3	12	-F	3 C		25		
	PEKG	18 0430	0431	0450	S13	W24	.518	17120	16.4	20	-N		0431	67	.8	E
GRP87855	LEAR	18 0456	0457+1	0505	S14	W13	.419	17127	17.2	9	-F			40	.4	
	CULG	18 0456	0458	0505	S14	W13	.419	17127	17.2	9	-F	3 C		28		
	CULG	18 0457E	0457E	0505	S14	W14	.428	17127	17.2	8D	-F	P	0457	50	.6	
GRP87856	CULG	18 0520+3	0527+4	0546	S14	W14	.428	17127	17.2	26	-N			60	.7	DK
	PEKG	18 0520	0527	0546	S14	W14	.428	17127	17.2	26	-N	C	0527	60	.7	K
	PEKG	18 0523	0531	0531D	S14	W14	.428	17127	17.2	8D	-N	C	0531	59	.6	D
GRP87857	CULG	18 0548+7	0558+1	0640	S13	W15	.424	17127	17.1	52	-N			50	.6	K
	PEKG	18 0548	0558	0613D	S13	W15	.424	17127	17.1	25D	-N	P	0558	50	.6	K
	PEKG	18 0555	0559	0602D	S13	W15	.424	17127	17.1	7D	-N	C	0559	63	.7	E
	PEKG	18 0602	0607	0640	S12	W14	.402	17127	17.2	38	-B	C	0607	181	2.0	F
858	PEKG	18 0607E	0607	0607D	S11	W24	.500	17120	16.5		-N	P	0607	13	.1	D
GRP87859	PURP	18 0654+1	0702	0751	S11	W15	.399	17127	17.2	57	-N					E
	PEKG	18 0654	0702	0739	S11	W14	.389	17127	17.2	45	-N	C				
	PEKG	18 0655	0718	0802	S12	W17	.431	17127	17.0	67	-N	C	0719	67	.8	E
860	ABST	18 0737E	0738	0739D	N13	W16	.289	17121	17.1	2D	-F	P	0738	87	.9	D
861	RAMY	18 1252	1253	1300	S12	W29	.568	17120	16.4	8	-N	3 C		60		
862	RAMY	18 1433	1435	1440	S08	W58	.864	17130	14.3	7	-F	3 C		19		
863	WEND	18 1447E		1523D	S11	W28	.548	17120	16.5	36D	-N	C	1500	44	.5	E
864	RAMY	18 1453	1456	1502D	S09	W60	.882	17130	14.1	9D	-F	3 C		24		
GRP87865	RAMY	18 1522+1	1523	1557	S32	E42	.829	17142	21.8	35	-F					
	HOLL	18 1522	1523	1556	S32	E43	.836	17142	21.9	34	-F	3 C		42		
	HOLL	18 1523	1530	1557	S32	E42	.829	17142	21.8	34	-F	3 C		50		
GRP87866	WEND	18 1527+9		1540	S11	W29	.561	17120	16.5	13	-F					E
	RAMY	18 1527		1537D	S11	W28	.548	17120	16.5	10D	-N	C	1535	63	.7	E
	RAMY	18 1536	1540	1540	S12	W30	.580	17120	16.4	4	-F	3 C		20		
867	RAMY	18 1547	1553	1555	S08	W59	.872	17130	14.2	8	-F	3 C		16		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Imp	Obs Type	Area Measurement			Remarks		
							Dist	Plage Region	CMP Day				Time (UT)	Appar (Disk)	Corr (Sq Deg)			
868	HOLL	18	1731	1733	1740	N09	W59	.852	17117	14.3	9	-F	3	C		21		
GRP87869	18	1756+4	1802 1809+5	1830	N09	W60	.860	17117	14.2	34	1N							
	HOLL	18	1756	1802	1846	N09	W60	.860	17117	14.2	50	1N	3	C		145		
	PALE	18	1759	1809	1823	N12	W60	.859	17117	14.2	24	-F	3	C		59	D	
	HUAN	18	1800	1814	1830	N09	W60	.860	17117	14.2	30	1N	1	C	1814	110	2.4	E
870	HOLL	18	1946	2003	2018	S10	W18	.420	17127	17.5	32	-F	3	C		20		
871	HOLL	18	2009	2009	2016	N13	W61	.868	17117	14.3	7	-F	3	C		19		
		18	2122	2124	NO FLARE PATROL													
872	HOLL	18	2205	2213	2238	S09	E13	.354	17147	19.9	33	-F	3	C		41		
873	HOLL	18	2220	2237	2257	N13	W61	.868	17117	14.4	37	-N	3	C		45		
GRP87874	18	2243	2248 2254+2	2318	S10	E10	.339	17147	19.7	35	-N							
	HOLL	18	2243	2248	2318	S10	E12	.357	17147	19.8	35	-F	3	C		54		
	PEKG	18	2254E	2254	2302	S10	E10	.339	17147	19.7	8D	-N		P	2255	25	.3	E
	CULG	18	2256	2256E	2320	S10	E10	.339	17147	19.7	24	1N		P	2256	260	2.6	F
875	CULG	18	2301	2309	2350U	S33	E40	.822	17142	22.0	49D	?N		C	2309	160	2.7	
			IMP.1 NO : PURP HOLL															
876	CULG	18	2336	2345	2359	N15	W67	.914	17117	14.0	23	?F		C	2345	150	3.3	F
			IMP.1 NO : PURP															
877	LEAR	19	0004	0004	0006	S32	E35	.782	17142	21.6	2	-F	3	C		17		
878	CULG	19	0029	0051U	0107D	N14	W65	.899	17117	14.1	38D	?F		P	0051	100	2.3	T
			IMP.1 NO : PURP															
879	CULG	19	0050	0107D	0125	S14	W26	.550	17127	17.1	35	?F		P	0107	180	2.2	F
			IMP.1 NO : PURP															
880	LEAR	19	0110	0116	0120	S08	W68	.936	17130	13.9	10	-F	3	C		12		
881	CULG	19	0241	0243	0246	S35	E36	.810	17142	21.8	5	-F		C	0243	30	.5	
882	CULG	19	0253	0259	0310	N15	E66	.907	17151	24.1	17	?F		C	0259	160	3.7	T
			IMP.1 NO : PURP															
883	CULG	19	0331	0335	0430	N14	W68	.921	17117	14.0	59	?F		C	0335	150	3.5	KFT
			IMP.1 NO : PURP															
884	CULG	19	0350	0352	0357	S36	E37	.823	17142	21.9	7	-F		C	0352	70	1.2	
885	CULG	19	0500	0502	0520	S09	W27	.521	17127	17.2	20	-F		C	0502	140	1.6	
GRP87886	19	0542>9	0606+0	0618	N15	W69	.927	17117	14.1	36	-N							
	CULG	19	0542	0606	0628	N15	W71	.939	17117	13.9	46	1N	*	C	0606	100	2.5	T
	LEAR	19	0600	0606	0608	N15	W68	.920	17117	14.2	8	-F	*	C		33		
887	CULG	19	0546	0548	0553	S10	W26	.516	17127	17.3	7	-F		C	0548	70	.8	
888	KANZ	19	0723	0723	0736	N13	W71	.939	17117	14.0	13	-N		2				
889	KANZ	19	0749	0753	0757	N19	E37	.613	17145	22.1	8	-F		1				
GRP87890	19	0817+5	0820+7	0838	N14	W68	.921	17117	14.2	21	-N				70		D	
	KANZ	19	0817	0821	0833	N12	W69	.928	17117	14.2	16	-N		2				
	LEAR	19	0819	0821	0836	N15	W67	.914	17117	14.3	17	-N		3	C		92	
	WEND	19	0819	0823	0830	N14	W66	.907	17117	14.4	11	-N		C	0823	62		
	CATA	19	0820	0820	0830	N13	W69	.927	17117	14.2	10	-F		2	C	0820	67	
	ATHN	19	0822	0827	0854	N15	W74	.955	17117	13.8	32	-B		3	V	0827	48	1.4
	KHAR	19	0845E	0848	0918D	N13	W67	.914	17117	14.3	33D	-F		P				D
891	LEAR	19	0833	0836	0847	S10	W30	.566	17127	17.1	14	-F		3	C		32	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	QMD	Hale Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks	
892	KHAR	19 0851E	0855	0901D	S10	W28	.541	17127	17.3	10D	-F	P	0855	50	.6	E	
GRP87893	19 1003+4	1005+4	1012	N15	W71	.939	17117	14.1	9	-N						D	
	KANZ	19 1003	1007	1015	N13	W71	.939	17117	14.1	12	-N	2					
	KHAR	19 1005E	1005	1012D	N15	W72	.945	17117	14.0	7D	-F	P				D	
	WEND	19 1007	1009	1011	N15	W68	.920	17117	14.3	4	-N	C	1009	44			
894	KHAR	19 1024E	1026	1032D	N11	E36	.584	17146	22.1	8D	-F	P	1026	30	.4	D	
895	KHAR	19 1040E	1042	1050D	N11	E36	.584	17146	22.1	10D	-F	P	1047	50	.7	D	
896	KHAR	19 1044E	1044	1049D	N15	W74	.955	17117	13.9	5D	-F	V	1044			D	
GRP87897	19 1045>9	1100+7	1143	S13	W31	.599	17127	17.1	58	1N				220	2.7	EL	
	KHAR	19 1045E	1100	1149D	S13	W32	.611	17127	17.0	64D	1N	P	1103	296	3.5	EL	
	WEND	19 1050	1107	1144	S11	W32	.597	17127	17.1	54	1N	C	1107	194	2.4		
	CATA	19 1055	1105	1140	S12	W33	.615	17127	17.0	45	1F	2	C	1105	197	2.6	
	KANZ	19 1055	1105	1125	S13	W30	.587	17127	17.2	30	1N	2					
	HTPR	19 1058E		1145	S13	W30	.587	17127	17.2	47D	1N	C	1103	200	2.3	E	
898	HTPR	19 1105	1108	1115	N18	E36	.598	17145	22.2	10	-N	C	1108	50	.6		
GRP87899	19 1141+1	1145+0	1154	N09	E78	.975	17154	25.3	13	-F						G	
	KANZ	19 1141	1145	1157	N10	E79	.978	17154	25.4	16	-F	2				G	
	WEND	19 1142	1145	1150	N09	E78	.975	17154	25.3	8	-F	C	1145	25			
900	HTPR	19 1215		1250D	N19	E37	.613	17145	22.3	35D	-F	C	1237	30	.4		
GRP87901	19 1224>9	1238+2	1245	N14	W70	.933	17117	14.3	21	-F				35			
	KANZ	19 1224	1240	1248	N13	W72	.945	17117	14.1	24	-N	2					
	HTPR	19 1233	1238	1245	N14	W70	.933	17117	14.3	12	-F	C	1238	40	.9		
	WEND	19 1238	1240	1244	N15	W69	.927	17117	14.4	6	-F	C	1240	30			
902	HTPR	19 1255		1300	N19	E36	.601	17145	22.2	5	-F	C	1255	40	.5	E	
GRP87903	19 1317+3	1320+2	1332	N11	E37	.598	17146	22.3	15	-F				30	.4	E	
	HTPR	19 1317	1322	1337	N11	E37	.598	17146	22.3	20	-F	C	1322	30	.4	E	
	KANZ	19 1320	1320	1332	N12	E37	.599	17146	22.3	12	-F	2					
	WEND	19 1320	1322	1332	N10	E34	.555	17146	22.1	12	-F	C	1322	34	.4		
GRP87904	19 1535	1541	1626	S14	W32	.618	17127	17.2	51	-N						EK	
	HTPR	19 1535	1556	1626	S14	W32	.618	17127	17.2	51	-N	C	1556	180	2.0	EK	
	HTPR	19 1535	1556	1626	S14	W32	.618	17127	17.2	51							
905	HOLL	19 1750	1759	1804	S12	W46	.761	17120	16.3	14	-F	3	C		21		
906	HUAN	19 1856E		1859D	S28	E80	.996	17163	25.8	3D	-F	1	P	1859	20		D
907	CULG	19 2128	2147	2154	S33	E29	.751	17142	22.1	26	-N	C	2147	40	.6	KT	
908	CULG	19 2136	2150U	2221	S30	E74	.985	17156	25.4	45	-F	C	2150	40			
909	CULG	19 2158	2214	2244	S09	W36	.634	17127	17.2	46	-F	C	2214	60	.8	F	
GRP87910	19 2202>9	2205	2232	S10	W06	.312	17147	19.5	30	-F						H	
	HOLL	19 2202	2205	2225	S11	W05	.322	17147	19.5	23	-N	3	C		50		
	CULG	19 2217	2222U	2238	S09	W08	.309	17147	19.3	21	-F	C	2222	40	.4	H	
GRP87911	19 2245+1	2249+4	2257	S14	W36	.663	17127	17.2	12	-F				50	.7		
	HOLL	19 2245	2249	2256	S16	W37	.686	17127	17.2	11	-N	3	C		51		
	CULG	19 2246	2253	2258D	S13	W36	.657	17127	17.2	12D	-F	P	2253	60	.8		
912	CULG	19 2352	2359	0013	S30	W55	.902	17132	15.9	21	-F	C	2359	40		G	
913	CULG	20 0005	0008	0016	S14	W22	.506	17157	18.4	11	-F	C	0008	60	.7	G	
914	CULG	20 0018	0039	0239U	S10	E29	.553	17149	22.2	141D	-N	C	0039	120	1.4	S	
915	VORO	20 0047	0048	0053	S33	E30	.757	17142	22.3	6	-F	C	0048	18	.3	D	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale Cen Dist	Hale Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks		
916	CULG	20	0052	0102	0116	S10	W11	.347	17147	19.2	24	-F	C	0102	40	.4		
GRP87917	20	0110+1	0113+1	0127	S33	E28	.745	17142	22.1	17	-N						DJ	
	CULG	20	0110	0113	0133	S34	E28	.754	17142	22.1	23	1N	C	0113	140	2.1	T	
	VORO	20	0111	0114	0121	S33	E29	.751	17142	22.2	10	-N	C	0114	45	.7	DJ	
918	CULG	20	0207	0215	0251	S37	W67	.972	17132	15.1	44	1N	C	0215	120			
919	CULG	20	0252	0300	0308	S34	E28	.754	17142	22.2	16	-N	C	0300	60	.9	T	
920	CULG	20	0309	0319	0329	N21	E08	.274	17141	20.7	20	-F	C	0319	30	.3		
921	CULG	20	0311	0320	0350	N10	E29	.482	17146	22.3	39	-N	C	0320	40	.5	T	
922	CULG	20	0409	0413	0423	S10	W12	.356	17147	19.3	14	-F	C	0413	70	.8		
923	CULG	20	0411	0413	0426	S13	W42	.723	17127	17.0	15	-N	C	0413	100	1.4		
924	CULG	20	0429	0433	0446	S34	E27	.748	17142	22.2	17	-N	C	0433	80	1.2	T	
925	CULG	20	0505	0514	0550	N21	E08	.274	17141	20.8	45	-N	C	0514	100	1.0		
926	CULG	20	0514	0518	0530	S30	E70	.973	17156	25.5	16	-F	C	0518	50			
927	CULG	20	0515	0522	0537	S13	W43	.734	17127	17.0	22	-F	C	0522	60	.9		
GRP87928	20	0516>9	0541	0702	S33	E24	.721	17142	22.0	106	-B						FL	
	CULG	20	0516	0541U	0703U	S31	E21	.683	17142	21.8	107D	1N	C	0541	300	4.0	LF	
	HPR	20	0652	0656	0700	S34	E26	.742	17142	22.2	8	-B	C	0656	80	1.0		
	CULG	20	0656	0658	0703	S35	E24	.741	17142	22.1	7	-F	C	0658	30	.4		
GRP87929	20	0621+9	0631+4	0708	S14	W40	.707	17127	17.3	47	1N			210	2.9	E		
	HPR	20	0621	0632	0708	S14	W40	.707	17127	17.3	47	1B	C	0632	220	2.9	E	
	CULG	20	0622	0631	0720	S13	W40	.701	17127	17.3	58	1B	C	0631	180	2.6		
	CATA	20	0630	0635	0700	S14	W39	.696	17127	17.3	30	1F	2	C	0635	225	3.2	
930	HPR	20	0655	0700	0709	N09	E26	.435	17146	22.2	14	-F	C	0700	20	.2		
GRP87931	20	0811+4	0815+5	0840	S10	W10	.339	17147	19.6	29	1N			200	2.1	E		
	HPR	20	0811	0815	0840	S10	W09	.331	17147	19.7	29	-N	C	0815	200	2.0	E	
	WEND	20	0813	0818	0839	S10	W12	.356	17147	19.4	26	-N	C	0818	180	1.9		
	CATA	20	0815	0820	0845	S11	W10	.353	17147	19.6	30	1F	2	C	0820	225	2.5	
GRP87932	20	0954+1	1005	1035D	S38	W63	.960	17132	15.7	41	-F			35				
	WEND	20	0954	1025D	S38	W66	.970	17132	15.5	31D	-F	C	1003	30				
	CATA	20	0955	1005	1035D	S38	W61	.953	17132	15.8	40D	-F	2	C	1005	39		
933	KANZ	20	1147	1147	1207	N09	E25	.420	17146	22.4	20	-F	1					
934	HUAN	20	1818		1824D	S16	W54	.850	17120	16.7	6D	-F	1	P	1822	30	.6	
935	HOLL	20	2010	2010	2036	S15	W50	.812	17127	17.1	26	-F	3	C		21		
936	HOLL	20	2026	2026	2049	N20	E17	.357	17145	22.1	23	-N	3	C		41		
937	HOLL	20	2028	2029	2049	N08	E13	.224	17146	21.8	21	-F	3	C		30		
938	HOLL	20	2110	2115	2130	N08	E12	.207	17146	21.8	20	-F	3	C		23		
939	CULG	20	2116	2117	2119	S33	E12	.665	17142	21.8	3	-F	C	2117	30	.4		
940	HOLL	20	2214	2227	2246	N07	E12	.206	17146	21.8	32	-F	3	C		41		
941	CULG	20	2325	2333	2356	N10	E19	.326	17146	22.4	31	-F	C	2333	40	.4		
942	CULG	20	2329	2346	2358	S12	W60	.888	17120	16.5	29	-F	C	2346	80	1.8		
943	CULG	21	0002	0004	0015	N34	E53	.651		25.0	13	-N	C	0004	80	1.4	G	
944	CULG	21	0013	0016	0022	S33	E10	.659	17142	21.8	9	-F	C	0016	30	.4		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement		Remarks
							Cent Dist	Plage Region	CMP Day					Appar (Disk)	Corr (Sq Deg)	
945	CULG	21 0026	0029	0036	S15	W49	.802	17127	17.3	10	-F	C	0029	20	.3	
946	CULG	21 0054	0115	0120	S15	E55	.855	17155	25.2	26	-F	C	0115	50	.9	F
947	CULG	21 0059	0117	0137	N08	E11	.190	17146	21.9	38	-N	C	0117	150	1.5	
948	CULG	21 0132	0137	0144	S32	E09	.643	17142	21.7	12	-N	C	0137	80	1.0	
		21 0318	0319	NO FLARE PATROL												
		21 0336	0341	NO FLARE PATROL												
949	CULG	21 0342E	0343U	0356	S30	E56	.908	17156	25.4	14D	-N	C	0343	60	1.5	
950	CULG	21 0438	0450	0503	N18	E12	.275	17145	22.1	25	-F	C	0450	40	.4	
951	LEAR	21 0517	0517	0522	N11	E15	.264	17146	22.3	5	-F	3 C		27		
GRP87952	21 0530+7	0540+4	0609	S13	W53	.832	17127	17.3	39	-N			90	1.6	E	
	CATA	21 0530E	0540	0605	S13	W53	.832	17127	17.3	35D	-F	2 P	0540	84	1.6	
	LEAR	21 0533	0544	0612D	S13	W53	.832	17127	17.3	39D	-N	3 C		98		
	CULG	21 0533	0543	0617	S13	W53	.832	17127	17.3	44	-N	C	0543	70	1.2	
	TACH	21 0537	0544	0602	S13	W56	.858	17127	17.0	25	1N	C	0544	132	2.6	E
953	CULG	21 0539	0548	0608U	N18	E12	.275	17145	22.1	29D	-F	C	0548	30	.3	
954	CULG	21 0614	0619	0625	N08	E09	.156	17146	21.9	11	-F	C	0619	40	.4	
GRP87955	21 0905+0	0912+5	0935	N17	E09	.229	17145	22.1	30	-F						
	WEND	21 0905	0912	0936	N17	E09	.229	17145	22.1	31	-F	C	0912	112	1.2	
	KANZ	21 0905	0917	0933	N17	E10	.240	17145	22.1	28	-N	3				
GRP87956	21 1058+2	1058+4	1108	N10	E11	.195	17146	22.3	10	-F			50	.5		
	KANZ	21 1058	1058	1102	N10	E11	.195	17146	22.3	4	-F	2				
	CATA	21 1100	1100	1110	N10	E11	.195	17146	22.3	10	-F	2 C	1100	56	.6	
	WEND	21 1100	1102	1108	N10	E12	.212	17146	22.4	8	-N	C	1102	50	.5	
957	WEND	21 1153	1153	1157	N10	E12	.212	17146	22.4	4	-F	C	1153	44	.5	
958	WEND	21 1423	1430	1434	S11	W29	.560	17147	19.4	11	-F	C	1430	25	.3	D
959	HOLL	21 2108	2110	2113	S13	W74	.971	17120	16.3	5	-F	3 C				
960	CULG	21 2255	2259U	2312	N26	W55	.825	17121	17.8	17	-F	C	2259	40	.9	
GRP87961	21 2259+1	2300+0	2314	N10	E04	.086	17146	22.3	15	-F			45	.5		
	CULG	21 2259	2300	2311	N10	E05	.100	17146	22.3	12	-F	C	2300	60	.6	
	HOLL	21 2300	2300	2316	N10	E04	.086	17146	22.3	16	-F	3 C		32		
962	HOLL	21 2304	2307	2326	N19	E02	.209	17145	22.1	22	-F	3 C		51		
963	CULG	21 2309	2313	2322	S30	E59	.925	17163	26.4	13	-F	C	2313	40	1.0	
964	CULG	21 2317	2320	2332	S33	W02	.645	17142	21.8	15	-F	C	2320	20	.3	
965	CULG	21 2334	2337	2340	S14	W65	.926	17127	17.1	6	-N	C	2337	30	.8	
966	CULG	21 2354	2358	0007	S33	W03	.645	17142	21.8	13	-F	C	2358	30	.4	
GRP87967	22 0037+1	0039+1	0051	N10	E03	.073	17146	22.3	14	-F			70	.7	DJ	
	CULG	22 0037	0039	0105	N10	E04	.086	17146	22.3	28	-N	C	0039	120	1.2	
	VORO	22 0038	0040	0050	N10	E03	.073	17146	22.3	12	-N	C	0040	72	.7	DJ
	HOLL	22 0038	0039	0051	N09	E02	.048	17146	22.2	13	-F	2 C		71		
	PALE	22 0040E	0040U	0045	N10	E03	.073	17146	22.3	5D	-F	3 C		33		
968	CULG	22 0042	0048	0053	S34	E04	.659	17142	22.3	11	-N	C	0048	40	.5	K
969	PEKG	22 0242	0246	0302	N11	E01	.071	17146	22.2	20	-N	P	0246	25	.3	E
970	CULG	22 0307	0318	0335	N12	E01	.088	17146	22.2	28	-F	C	0318	30	.3	
971	PEKG	22 0332	0339	0345	S12	W78	.984	17120	16.3	13	-B	P	0339	42		D

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Imp	Obs Type	Area Measurement		Remarks	
							Gen Dist	Plage Region	OMP Day				Time (UT)	Appar (Disk)		Corr (Sq Deg)
972	CULG	22 0337	0341	0350U	N11	W03	.086	17146	21.9	13D	-F	C	0341	60	.6	
973	CULG	22 0404	0410	0420	N20	E00	.224	17145	22.2	16	-F	C	0410	40	.4	
GRP87974	22 0430	0432+4	0444	N11	W02	.077	17146	22.0	14	-F			110	1.1	F	
	CULG	22 0430	0432	0442	N11	W02	.077	17146	22.0	12	-F	C	0432	120	1.2	
	PEKG	22 0433E	0436	0445	N11	W02	.077	17146	22.0	12D	-N	C	0436	97	1.0	F
GRP87975	22 0540E	0544	0550D	N18	W48	.743	17152	18.6	10	-F						
	ABST	22 0540E	0544	0550D	N19	W47	.733	17152	18.7	10D	-F	P	0544	114	1.7	E
	PEKG	22 0550E	0550	0550D	N18	W49	.754	17152	18.6		-F	P	0550	42	.6	D
GRP87976	22 0543+5	0547+3	0610	S33	W05	.647	17142	21.9	27	-N			90	1.1		
	ABST	22 0543	0547	0550D	S33	W03	.645	17142	22.0	7D	-N	P	0547	87	1.2	D
	PEKG	22 0548	0550	0610	S33	W05	.647	17142	21.9	22	-N	P	0550	76	1.0	E
	CULG	22 0557E	0557E	0557D	S30	W07	.611	17142	21.7		-N	P	0557	100	1.2	
977	CATA	22 0730	0730	0735D	S34	W04	.659	17142	22.0	5D	-F	2 P	0730	84	1.1	
GRP87978	22 0735+4	0741+4	0812	N12	W03	.100	17146	22.1	37	1N			240	2.4	KU	
	ISTA	22 0735		0748	N12	W01	.088	17146	22.2	13	2N					U
	KANZ	22 0736	0741	0806	N11	W02	.077	17146	22.2	30	-N	2				
	PEKG	22 0737	0742	0850	N11	W03	.086	17146	22.1	73	1B	P	0742	328	3.4	F
	TACH	22 0739	0745	0810D	N12	W04	.110	17146	22.0	31D	1F	C	0801	264	2.7	EK
	ATHN	22 0739	0742	0752	N10	W03	.073	17146	22.1	13	1B	3 V	0742	216	2.2	
	WEND	22 0741E		0819D	N12	W02	.093	17146	22.2	38D	-N	C	0741	180	1.9	K
	CATA	22 0800E	0800	0835	N12	W03	.100	17146	22.1	35D	-F	2 P	0800	169	1.7	
979	WEND	22 0747		0819D	N16	E01	.156	17145	22.4	32D	-F	C	0758	25	.3	D
980	KHAR	22 1044E	1048	1051D	N18	E69	.927	17159	27.6	7D	-F	P				D
	22 1401	1451	NO FLARE PATROL													
GRP87981	22 1603+9	1619+0	1657	N04	W08	.148	17160	22.1	54	-B						
	HOLL	22 1603	1619	1702	N05	W09	.160	17160	22.0	59	1B	3 C		232		
	BIGB	22 1612	1619	1651	N04	W08	.148	17160	22.1	39	-N	3 C	1619	50	.5	
982	HOLL	22 1620	1620	1632	S33	W09	.656	17142	22.0	12	-F	3 C		23		
983	PALE	22 1914	1920	1922	N19	W10	.266	17145	22.1	8	-F	3 C		35		
984	PEKG	22 2334	2337	2345	N17	W13	.278	17145	22.0	11	-F		2337	88	.9	E
GRP87985	22 2345>9	0003	0053	N18	W13	.288	17145	22.0	68	1N			220	2.3	FK	
	PEKG	23 0035E	0039	0053	N18	W13	.288	17145	22.0	18D	1N	P	0039	294	3.2	F
	CULG	22 2345U	2436	0112U	N17	W14	.291	17145	21.9	87D	-N	C	2436	150	1.5	FKT
	PEKG	22 2355	2403	0008	N19	W13	.299	17145	22.0	13	-N	C	2403	63	.7	E
986	CULG	23 0019	0020	0030	N10	W15	.261	17146	21.9	11	-F	C	0020	80	.8	T
987	CULG	23 0028	0028	0030	S34	W09	.668	17142	22.3	2	-F	C	0028	20	.3	
988	PEKG	23 0035	0039	0049	N05	E85	.995	17169	29.4	14	-F	C	0039	13		D
989	CULG	23 0109E	0112U	0116	N09	W15	.259	17146	21.9	7D	-F	P	0112	60	.6	T
GRP87990	23 0124	0128	0150	S35	W26	.751	17142	21.1	26	1N						
	CULG	23 0124	0128	0157	S35	W26	.751	17142	21.1	33	1N	C	0128	180	2.7	
	LEAR	23 0133E	0135U	0142	S35	W26	.751	17142	21.1	9D	-F	3 C		56		
991	CULG	23 0124	0130U	0150U	N18	W14	.301	17145	22.0	26D	-N	C	0130	120	1.2	TF
GRP87992	23 0221+1	0225+3	0316	N17	W13	.278	17145	22.1	55	1N						F
	CULG	23 0221	0244	0316U	N17	W16	.318	17145	21.9	55D	1N	C	0244	210	2.1	TF
	LEAR	23 0222	0225	0301	N18	W13	.288	17145	22.1	39	-N	3 C		85		
	PEKG	23 0222	0228	0249D	N18	W13	.288	17145	22.1	27D	1B	C	0224	273	2.9	F
	PEKG	23 0306	0310	0328	N17	W14	.291	17145	22.1	22	1N	C	0310	193	2.1	F

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale		CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement			Remarks	
							Dist	Plage Region					Time (UT)	Appar (Disk)	Corr (Sq Deg)		
993	CULG	23 0244	0247	0256	N08	W15	.257	17146	22.0	12	-F	C	0247	60	.6	T	
GRP87994	23 0310+2	0310+2	0316	N08	W15	.257	17146	22.0	6	-N						E	
PEKG	23 0310E	0310	0315	N08	W15	.257	17146	22.0	5D	-N	C	0310	42	.4	E		
CULG	23 0312	0312	0317	N09	W15	.259	17146	22.0	5	-N	C	0312	100	1.0	T		
995	PEKG	23 0340	0351	0401	S16	E86	.999	17167	29.6	21	-N		0351	29		D	
GRP87996	23 0430+9	0441+1	0504	N19	W13	.299	17145	22.2	34	1B				210	2.2	DJ	
PEKG	23 0430	0442	0500	N19	W15	.323	17145	22.1	30	1B		C	0442	286	3.1	F	
LEAR	23 0439	0441	0503	N20	W14	.322	17145	22.1	24	1B	3	C		136		D	
ABST	23 0501E	0503	0505D	N19	W13	.299	17145	22.2	4D	1B		P	0503	114	1.2	DJ	
YUNN	23 0505E	0512	0516	N20	W13	.310	17145	22.2	11	-N		C		64	.7		
GRP87997	23 0549+1	0551+2	0604	S34	W17	.696	17142	22.0	15	1N						JU	
ABST	23 0549	0605	0651	S36	W16	.714	17142	22.0	62	1N	*	C	0605	192	2.7	EJ	
LEAR	23 0550	0551	0602	S33	W17	.684	17142	22.0	12	1B	3	C		80			
PEKG	23 0550	0553	0604	S34	W17	.696	17142	22.0	14	1N		C	0553	202	2.9	FU	
998	LEAR	23 0609	0617	0625	N19	W13	.299	17145	22.3	16	F	3	C		33		
GRP87999	23 0628+7	0630+6	0656	S32	W16	.668	17142	22.1	28	1B				25	.3	E	
HTPR	23 0628	0630	0645	S33	W15	.676	17142	22.1	17	1B	*	C	0630	20	.2		
LEAR	23 0635	0636	0656	S31	W16	.656	17142	22.1	21	1B	*	C		26			
PEKG	23 0657E	0657	0701	S32	W16	.668	17142	22.1	4D	1B		C	0657	50	.7	E	
0	CATA	23 0635	0640	0655	N10	E90	1.000	17169	30.0	20	?F	2	C	0640	112		
			IMP.1	NO : HTPR													
GRP88001	23 0651+4	0652+5	0706	N17	W12	.265	17145	22.4	15	1B						EU	
HTPR	23 0651	0652	0703	N17	W12	.265	17145	22.4	12	1B		C	0652	60	.6	E	
ABST	23 0654	0656	0708	N17	W13	.278	17145	22.3	14	1B		C	0656	175	1.9	E	
PEKG	23 0654	0657	0713	N17	W12	.265	17145	22.4	19	1B		C	0657	147	1.6	D	
ISTA	23 0654		0706	N18	W11	.265	17145	22.5	12	1B						U	
LEAR	23 0655	0656	0701	N17	W11	.253	17145	22.5	6	1B	3	C		84			
GRP88002	23 0740+3	0743+8	0800	N09	E90	1.000	17169	30.1	20	1B				35		DH	
HTPR	23 0740	0751	0800	N09	E90	1.000	17169	30.1	20	1B		C	0751	40			
PEKG	23 0741	0748	0823	N10	E84	.992	17169	29.6	42	1B		C	0748	25		DH	
LEAR	23 0743	0743	0756	N09	E90	1.000	17169	30.1	13	1B	3	C					
GRP88003	23 0752+1	0754+1	0806	N15	W18	.332	17145	22.0	14	1B				25	.3	E	
HTPR	23 0752	0754	0812	N15	W17	.317	17145	22.1	20	1B		C	0754	20	.2	E	
YUNN	23 0753	0755	0800	N16	W20	.367	17145	21.8	7	1B		C		32	.4		
4	ABST	23 0833	0835	0846	N20	W16	.346	17145	22.2	13	1B		C	0835	131	1.4	E
5	ABST	23 0856	0858	0901D	N19	E58	.844	17159	27.7	5D	1B		C	0857	105	1.9	EJ
GRP88006	23 0915>9	0929	0940	N08	E90	1.000	17169	30.1	25	1B						AFJ	
ABST	23 0915	0929	0944	N07	E90	1.000	17169	30.1	29	1B		C	0929	131		AFJ	
HTPR	23 0931		0935	N09	E90	1.000	17169	30.1	4	1B		C	0931	40		B	
GRP88007	23 0956+0	0957+2	1006	N15	W19	.346	17145	22.0	10	1B						V	
HTPR	23 0956	0959	1006	N15	W17	.317	17145	22.1	10	1B		C	0959	70	.7	E	
ABST	23 0956	0957	1001D	N16	W21	.381	17145	21.8	5D	1B		P	0957	262	3.0	DV	
GRP88008	23 1011>9	1016	1035	N17	W14	.291	17145	22.4	24	1B				60	.6	E	
HTPR	23 1011	1016	1030	N15	W18	.332	17145	22.1	19	1B		C	1016	30	.3		
HTPR	23 1023	1028	1035	N17	W12	.265	17145	22.5	12	1B		C	1028	60	.6	E	
CATA	23 1025	1030	1035	N18	W13	.288	17145	22.5	10	1B	2	C	1030	56	.6		
9	HTPR	23 1309	1313	1323	N15	W18	.332	17145	22.2	14	1B		C	1313	50	.5	
10	HTPR	23 1353	1358	1408	N15	W15	.288	17145	22.5	15	1B		C	1358	60		EK
GRP88011	23 1510	1519	1543	N08	W19	.323	17146	22.2	33	1B						EK	
HTPR	23 1510	1519	1538	N10	W16	.277	17146	22.4	38	1B		C	1519	70	.7	EK	
HOLL	23 1524E	1526U	1547	N07	W22	.372	17146	22.0	23D	1B	2	C		72			

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Imp	Obs Type	Area Measurement		Remarks			
							Cen Dist	Plage Region	CMP Day				Time (UT)	Appar (Disk)		Corr (Sq Deg)		
12	HUAN	23	1613E	1619D	S15	E88	1.000	17167	30.3	6D	F	1	P	1618	65	E		
13	HOLL	23	1712	1724	N10	W19	.326	17146	22.3	12	F	3	C		60			
14	HUAN	23	1734	1800D	N16	W25	.439	17145	21.9	26D	N	1	P	1735	90	1.0		
15	HUAN	23	1735	1742D	N05	W23	.390	17160	22.0	7D	F	1	P			E		
		23	1917	1922	NO FLARE PATROL													
		23	1948	1949	NO FLARE PATROL													
		23	1956	2015	NO FLARE PATROL													
		23	2031	2229	NO FLARE PATROL													
GRP88016	23	2326+2	2328+9	2351	N05	W25	.422	17160	22.1	25	F				70	.8	EJ	
HOLL	23	2326	2328	2350	N05	W25	.422	17160	22.1	24	F	3	C		80			
VORO	23	2328	2333	2344	N06	W26	.436	17160	22.0	16	F		P	2333	63	.7	EJ	
PEKG	23	2333E	2333	2352	N05	W25	.422	17160	22.1	19D	F		P	2333	151	1.7	E	
LEAR	23	2336E	2337	2353	N06	W25	.420	17160	22.1	17D	F	3	C		69			
GRP88017	23	2338+2	2342+2	2349	S17	E84	.998	17167	30.3	11	F						D	
LEAR	23	2338E	2344U	2352D	S17	E82	.995	17167	30.1	14D	F	3	C				D	
VORO	23	2340	2342	2346	S17	E87	1.000	17167	30.5	6	F		C	2342	36		D	
GRP88018	24	0030+3	0035+0	0041	S21	E85	.999	17167	30.4	11	F						D	
PEKG	24	0030	0035	0041	S20	E83	.997	17167	30.2	11	F		P	0035	46		D	
LEAR	24	0033	0035	0040	S22	E87	1.000	17167	30.5	7	F	3	C					
GRP88019	24	0352	0355+1	0403	S20	E82	.996	17167	30.3	11	F						E	
LEAR	24	0352	0356	0405	S21	E87	1.000	17167	30.7	13	F	3	C					
PEKG	24	0355E	0355	0400	S19	E78	.988	17167	30.0	5D	F		P	0356	42		E	
20	LEAR	24	0424	0440	0453	N06	W28	.467	17160	22.1	29	F	3	C		60		
21	LEAR	24	0503	0509	0521	S20	E79	.991	17167	30.1	18	F	3	C				
GRP88022	24	0605+4	0609+1	0637	S19	E78	.988	17167	30.1	32	F						D	
PEKG	24	0605	0609	0637	S19	E78	.988	17167	30.1	32	F		C	0609	34		D	
LEAR	24	0609	0610	0623	S20	E80	.993	17167	30.3	14	F	3	C					
HTPR	24	0615E		0640D	S18	E75	.978	17167	29.9	25D	F		C	0618	30			
23	PEKG	24	0633	0636	0640	N19	W31	.536	17145	21.9	7	F		C	0636	71	.9	E
GRP88024	24	0650+5	0655+4	0703	S20	E79	.991	17167	30.2	13	F				60		AJ	
LEAR	24	0650	0655	0702	S20	E78	.988	17167	30.1	12	F	3	C					
HTPR	24	0651	0659	0705	S18	E76	.982	17167	30.0	14	F		C	0659	40			
CATA	24	0655	0655	0655D	S20	E78	.988	17167	30.1		F	2	P	0655	56			
ABST	24	0656E	0657	0702D	S23	E89	1.001	17167	1.0	6D	F		P	0657	87		ADJ	
PEKG	24	0657E	0658	0703	S19	E80	.992	17167	30.3	6D	F		P	0658	42		E	
GRP88025	24	0703+9	0708+6	0720	N18	W29	.505	17145	22.1	17	F				30	.3	E	
HTPR	24	0703	0708	0721	N17	W30	.514	17145	22.0	18	F		C	0708	30	.3	E	
LEAR	24	0712	0714	0719	N19	W29	.509	17145	22.1	7	F	*	C		25			
GRP88026	24	0706+2	0708	0730	N05	W32	.528	17160	21.9	24	F						E	
			0715															
HTPR	24	0706	0708	0730	N05	W33	.543	17160	21.8	24	F		C	0708	40	.5	E	
LEAR	24	0708	0715	0730	N06	W31	.512	17160	22.0	22	F	3	C		45			
GRP88027	24	0715+4	0720+2	0732	S19	E77	.985	17167	30.1	17	F				60		D	
LEAR	24	0715	0720	0732	S21	E78	.989	17167	30.2	17	F	3	C					
HTPR	24	0715	0722	0729	S18	E76	.982	17167	30.0	14	F		C	0722	50			
PEKG	24	0719	0722	0745	S19	E77	.985	17167	30.1	26	F		C	0722	67		D	
GRP88028	24	0721+9	0733+2	0757	N18	W25	.450	17145	22.4	36	1B				290	3.3		
HTPR	24	0721	0733	0757D	N18	W31	.532	17145	22.0	36D	1B	*	C	0733	250	2.9	E	
PEKG	24	0722	0733	0755	N18	W25	.450	17145	22.4	33	1B	*	C	0733	336	3.9	F	
LEAR	24	0728	0735	0800	N18	W25	.450	17145	22.4	32	1B	*	C		317		D	
ATHN	24	0732	0735	0818	N18	W25	.450	17145	22.4	46	1B	*	V	0735	248	2.8		
TACH	24	0743E		0750	N18	W26	.464	17145	22.4	7D	F	*	C	0743	133	1.6	BE	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Cmd	Hale Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks	
GRP88029	24	0803+1	0805 0837+1	0846	N18	W25	.450	17145	22.5	43	-F					J	
HTPR	24	0803E	0838	0901	N18	W25	.450	17145	22.5	58D	-N	* C	0838	30	.3	E	
LEAR	24	0804	0805	0824	N18	W25	.450	17145	22.5	20	-F	* C		29			
ABST	24	0825E	0837	0846	N18	W26	.464	17145	22.4	21D	-F	* P	0837	87	1.0	DJ	
GRP88030	24	0805	0819 0826	0841	S20	E83	.997	17167	30.6	36	-B					ADJ	
HTPR	24	0805	0819	0845	S18	E78	.987	17167	30.2	40	-B	C	0819	50			
ABST	24	0825E	0826	0836	S23	E89	1.001	17167	1.0	11D	1N	P	0826	87		ADJ	
31	HTPR	24	0858	0908	0936	S18	E78	.987	17167	30.2	38	-F	C	0908	20		
GRP88032	24	0938+1	0939+2	0952	N08	W30	.496	17146	22.2	14	-F					.2	
HTPR	24	0938	0939	1000	N08	W30	.496	17146	22.2	22	-F	C	0939	10	.1		
LEAR	24	0939	0941	0943	N09	W30	.496	17146	22.2	4	-F	3 C		25			
33	HTPR	24	1018	1021	1028	N16	W31	.524	17145	22.1	10	-F	C	1021	20	.2	
34	HTPR	24	1047	1055	1100	S18	E76	.982	17167	30.1	13	-B	C	1055	60		E
35	HTPR	24	1115	1120	1130	N17	W25	.444	17145	22.6	15	-B	C	1120	30	.3	
36	HTPR	24	1205	1215	1217	S18	E75	.978	17167	30.1	12	-F	C	1215	20		
37	HTPR	24	1259	1303	1314	S18	E74	.975	17167	30.1	15	-N	C	1303	80		E
38	HTPR	24	1308	1310	1320	N12	W30	.500	17146	22.3	12	-N	C	1310	40	.5	
39	HTPR	24	1349	1358	1406	S17	E72	.966	17167	30.0	17	-F	C	1358	60		E
40	HTPR	24	1414	1422	1431	S18	E72	.967	17167	30.0	17	-F	C	1422	30		
41	RAMY	24	1510	1512	1518	N18	W34	.572	17145	22.1	8	-F	3 C		30		
GRP88042	24	1521+4	1529+1	1535	S18	E71	.963	17167	30.0	14	-F						
RAMY	24	1521	1529	1538	S18	E72	.967	17167	30.0	17	-F	3 C					
HTPR	24	1524	1529	1535	S18	E71	.963	17167	30.0	11	-N	C	1529	50			
HOLL	24	1525	1530	1534	S18	E71	.963	17167	30.0	9	-F	3 C					
43	RAMY	24	1532	1538	1539	N17	W37	.608	17145	21.9	7	-F	3 C		20		
GRP88044	24	1631+1	1634+2	1653	S18	E70	.958	17167	29.9	22	1N			130		E	
HOLL	24	1631	1636	1656	S18	E64	.927	17167	29.5	25	1N	3 C		174			
HTPR	24	1632	1643D	1650	S18	E71	.963	17167	30.0	11D	1B	C	1635	130		E	
BIGB	24	1632	1634	1650	S20	E70	.961	17167	29.9	18	-N	3 C	1634	60			
45	HOLL	24	1714	1717	1736	N01	W41	.660	17160	21.6	22	-N	3 C		73		
46	HOLL	24	1824	1835	1850	N13	W35	.573	17146	22.1	26	-N	3 C		64		
47	HOLL	24	1843	1843	1853	S17	E70	.957	17167	30.0	10	-N	3 C				
48	HOLL	24	1953	1953	1958	S16	E68	.946	17167	29.9	5	-F	3 C		11		
49	HOLL	24	2101	2102	2126	N16	W39	.632	17145	22.0	25	-N	3 C		28		
50	HOLL	24	2145	2147	2156	N17	W33	.555	17145	22.4	11	-N	3 C		50		
51	CULG	24	2227E	2227E	2236	N20	W34	.580	17145	22.4	9D	-N	P	2227	80	1.0	
52	CULG	24	2305	2310	2318	N20	W34	.580	17145	22.4	13	-F	C	2310	70	.8	
53	CULG	24	2350	2350	2352	N17	W34	.569	17145	22.4	2	-F	C	2350	40	.5	
GRP88054	25	0014+0	0015+1	0023	S20	E68	.951	17167	30.1	9	-N				45		
LEAR	25	0014	0015	0022	S20	E68	.951	17167	30.1	8	-N	3 C		52			
CULG	25	0014	0016	0024	S19	E65	.934	17167	29.9	10	-N	C	0016	40	.9		
PURP	25	0016E		0016D	S20	E68	.951	17167	30.1		1N	V					
55	CULG	25	0100	0103	0110	N20	W37	.618	17145	22.3	10	-F	C	0103	100	1.3	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale		CMP	Dur (Min)	Imp	Obs Type	Area Measurement			Remarks
							cen Dist	Plage Region					Time (UT)	Appar (Disk)	Corr (Sq Deg)	
GRP88056	25	0230+2	0233 0239+5	0305	N16	W39	.632	17145	22.2	35	1F					FG
CULG	25	0230	0239	0305	N14	W40	.641	17145	22.1	35	1F	C	0239	200	2.6	
CULG	25	0230	0233	0238	N20	W37	.618	17145	22.3	8	+	C	0233	50	.6	F
LEAR	25	0232	0244	0302	N12	W39	.626	17145	22.2	30	+	3 C		67		G
PURP	25	0237E	0243	0310	N16	W43	.682	17145	21.9	330	1F	C				
57 CULG	25	0247	0258	0317	S30	W31	.737	17142	22.8	30	+	C	0258	40	.6	
58 LEAR	25	0413	0414	0427	S32	W32	.760	17142	22.8	14	+	3 C		32		
59 PURP	25	0425	0438	0457	N15	E62	.876	17168	29.8	32	1N	C				G
60 LEAR	25	0433	0435	0441	S42	W56	.944		21.0	8	+	3 C		25		
61 LEAR	25	0434	0434	0440	S31	E43	.829	17166	28.4	6	+	3 C		17		
62 CULG	25	0444E	0458 IMP.2	0530D NO : PURP	S39	W58	.943		20.8	460	?N	P	0458	250	6.8	F
63 LEAR	25	0503	0507	0515	S33	E44	.846	17166	28.5	12	+	3 C		26		
64 CULG	25	0611	0620U IMP.1	0704U NO : PURP TACH	S13	W40	.701	17148	22.3	530	?F	C	0620	180	2.5	L
65 PURP	25	0625E	0625	0637	S07	E55	.835	17164	29.4	120	+	C				D
66 CULG	25	0645	0648	0710	S20	E65	.936	17167	30.2	25	+	C	0648	60		
GRP88067	25	0645>9	0651+6	0703	N17	W46	.719	17145	21.8	18	+					
CULG	25	0645	0651	0705	N18	W47	.732	17145	21.8	20	+	* C	0651	60	.8	
LEAR	25	0657	0657	0701	N17	W45	.708	17145	21.9	4	+	* C		19		
68 ABST	25	0710	0711	0726	N18	W40	.649	17145	22.3	16	+	C	0711	87	1.2	DJV
69 HTPR	25	0726	0729	0735	N20	W50	.767	17145	21.6	9	+	C	0729	20	.3	
GRP88070	25	0732+4	0737+2	0746	S08	E54	.828	17164	29.4	14	+					DJV
HTPR	25	0732	0738	0745	S08	E54	.828	17164	29.4	13	+	C	0738	20	.3	
PURP	25	0735	0739	0755	S07	E54	.826	17164	29.4	20	+	C				D
ABST	25	0736	0737	0746	S08	E60	.861	17164	29.8	10	+	C	0737	87	1.8	DJV
71 ABST	25	0747	0748	0753	N18	W40	.649	17145	22.3	6	+	C	0748	105	1.4	DV
GRP88072	25	0812+4	0815+0	0823	S08	E54	.828	17164	29.4	11	+			20	.4	D
HTPR	25	0812	0815	0823	S08	E54	.828	17164	29.4	11	+	C	0815	20	.3	
LEAR	25	0815	0815	0823	S08	E57	.855	17164	29.6	8	+	3 C		21		
PURP	25	0816		0822	S07	E54	.826	17164	29.4	6	+	V				D
73 KHAR	25	0824E		0845D	S09	E56	.848	17164	29.5	210	+	V	0827			D
74 KHAR	25	0846E	0847	0852D	N19	W42	.676	17145	22.2	60	+	P	0847			D
GRP88075	25	0911+4	0915+3	0930	S07	E56	.844	17164	29.6	19	+			70	1.3	EHJ
KHAR	25	0911E	0918	0930D	S07	E56	.844	17164	29.6	190	+	P	0920	85	1.8	EH
ABST	25	0915	0917	0919D	S08	E57	.855	17164	29.7	40	1N	P	0917	122	2.4	EJ
LEAR	25	0915	0916	0932	S08	E57	.855	17164	29.7	17	+	3 C		46		
CATA	25	0915	0915	0920	S07	E54	.805	17164	29.4	5	+	2 C	0915	56	1.0	
GRP88076	25	0920+3	0920+5 0931	0932	N10	E59	.851	17169	29.8	12	+					
CATA	25	0920	0920	0930	N08	E57	.834	17169	29.7	10	+	2 C	0920	56	1.1	
LEAR	25	0923	0931	0933	N10	E59	.851	17169	29.8	10	+	3 C		24		
KHAR	25	0924E	0925	0930D	N10	E60	.860	17169	29.9	60	+	P	0925			
GRP88077	25	0930+5	0934+1	0944	S14	W01	.358	17155	25.3	14	+			50	.5	E
HTPR	25	0930	0935	0943	S17	W01	.489	17155	25.3	13	+	C	0935	40	.4	E
LEAR	25	0933	0934	0937D	S14	W01	.358	17155	25.3	40	+	* C		48		
CATA	25	0935	0935	0945	S14	W01	.358	17155	25.3	10	+	* C	0935	56	.6	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Imp	Obs Type	Area Measurement			Remarks	
							Dist	Region	OMP Day				Time (UT)	Appar (Disk)	Corr (Sq Deg)		
GRP88078	25	0933+7	0945+5	1019	S18	E55	.864	17167	29.5	46	1N						
HTPR	25	0933	0950	1019	S19	E48	.809	17167	29.0	46	B						EHJ
CATA	25	0940	0945	1015D	S18	E54	.856	17167	29.5	35D	2F	2	P	0945	281	5.6	E
KHAR	25	0940E	0948	1011D	S17	E58	.884	17167	29.8	31D	2N		P	0954	250	5.4	H
ABST	25	0953E	0953	1001D	S18	E57	.879	17167	29.7	8D	1N		P	0953	114	2.4	EJ
79 CATA	25	1025E	1030	1035	N07	E53	.794	17169	29.4	10D	F	2	P	1030	56	1.0	
GRP88080	25	1026	1030	1033	S32	W40	.814	17142	22.4	7	F						D
HTPR	25	1026	1030	1032	S32	W42	.828	17142	22.3	6	F		C	1030	20	.3	
KHAR	25	1031E		1033D	S32	W39	.807	17142	22.5	2D	F		P	1031			D
GRP88081	25	1110	1129+5	1220	S08	E56	.846	17164	29.7	70	F						HK
HTPR	25	1110	1129	1220	S09	E58	.866	17164	29.8	70	F		C	1212	60	1.2	EK
KHAR	25	1120E	1134	1145D	S07	E55	.835	17164	29.6	25D	F		P	1138	50	1.1	DH
GRP88082	25	1135+9	1138+2	1156	N09	E57	.833	17169	29.8	21	F				30	.6	
			1146														
HTPR	25	1135	1138	1157	N07	E50	.762	17169	29.2	22	F	*	C	1138	30	.5	
CATA	25	1140	1140	1145D	N09	E57	.833	17169	29.8	5D	F	*	P	1140	28	.6	
ATHN	25	1144	1146	1154	N09	E62	.878	17169	30.1	10	F	*	V	1146	48	1.0	
GRP88083	25	1137+3	1138+2	1210	S18	E55	.864	17167	29.6	33	F				70	1.3	EK
			1201														
HTPR	25	1137	1201	1210	S18	E52	.839	17167	29.4	33	F		C	1201	50	.8	EK
KHAR	25	1138E	1138	1145D	S17	E58	.884	17167	29.8	7D	F		P	1138	80	1.9	E
CATA	25	1140	1140	1145D	S18	E55	.864	17167	29.6	5D	F	2	P	1140	56	1.1	
84 HTPR	25	1358	1402	1420	S09	E57	.857	17164	29.9	22	F		C	1402	30	.5	E
	25	1635	1654	NO FLARE PATROL													
	25	1701	1741	NO FLARE PATROL													
	25	1810	1828	NO FLARE PATROL													
	25	1933	2108	NO FLARE PATROL													
85 CULG	25	2116	2118	2127	S10	E69	.944	17164	1.1	11	F		C	2118	30		
86 CULG	25	2132	2137	2147	S08	E48	.768	17164	29.5	15	F		C	2137	40	.7	
87 CULG	25	2141	2147	2158	S12	W08	.351	17155	25.3	17	F		C	2147	50	.5	L
88 CULG	25	2203	2212	2222	S19	E55	.867	17167	30.0	19	F		C	2212	80	1.6	F
89 CULG	25	2211	2216	2232	N21	W52	.789	17145	22.0	21	1N		C	2216	220	3.5	FI
90 CULG	25	2242	2243	2250	N03	W59	.856	17160	21.5	8	F		C	2243	40	.8	H
GRP88091	25	2306+2	2310+0	2321	N05	W54	.806	17160	21.9	15	F				70	1.2	DK
CULG	25	2306	2310	2328	N05	W55	.816	17160	21.8	22	F		C	2310	60	1.0	K
VORO	25	2308	2310	2314	N05	W54	.806	17160	21.9	6	F		C	2310	81	1.3	D
92 CULG	25	2331	2336	2343	S27	W05	.564	17156	25.6	12	F		C	2336	40	.5	
94 CULG	25	2352	2400	0008	S32	W44	.841	17142	22.7	16	F		C	2400	30	.5	
95 CULG	26	0037	0041	0047	N07	W57	.834	17146	21.8	10	F		C	0041	40	.7	T
GRP88096	26	0101+4	0105+1	0111	S08	E45	.735	17164	29.4	10	F				50	.7	J
CULG	26	0101	0105	0112	S09	E46	.749	17164	29.5	11	F		C	0105	60	.9	
VORO	26	0105	0106	0109	S07	E45	.731	17164	29.4	4	F		C	0106	54	.8	J
97 CULG	26	0114	0122	0133	N07	W57	.834	17146	21.8	19	F		C	0122	30	.5	T
98 CULG	26	0139	0145	0156	S31	W49	.868	17142	22.4	17	F		C	0145	40	.8	
99 CULG	26	0321	0325	0332	S27	W07	.568	17156	25.6	11	F		C	0325	30	.4	
100 CULG	26	0415	0421	0434	S09	E44	.727	17164	29.5	19	2N		C	0421	180	2.5	H

IMP.1 NO : PURP

H - ALPHA SOLAR FLARES

SEPTEMBER 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Imp	Obs Type	Area Measurement			Remarks	
							Cen Dist	Plage Region	OMP Day				Time (UT)	Appar (Disk)	Corr (Sq Deg)		
101	CULG	26	0450	0455	0507	S20	E59	.898	17167	30.6	17	-N	C	0455	60	1.3	
102	CULG	26	0516	0520	0528	N07	W59	.853	17146	21.8	12	-F	C	0520	30	.5	T
GRP881	03	26	0803+2	0809+3	0832	N17	E46	.719	17168	29.8	29	1B			160	2.3	
	ABST	26	0803	0810	0830D	N19	E48	.745	17168	29.9	27D	1N	P	0810	166	2.6	E
	LEAR	26	0805	0809	0812D	N16	E45	.706	17168	29.7	7D	1B	3 C		173		
	PURP	26	0808E	0812	0832	N15	E48	.740	17168	29.9	24D	1B	C				
	PEKG	26	0811E	0811	0830	N17	E46	.719	17168	29.8	19D	1B	P	0811	147	2.2	F
	KANZ	26	0811E	0811	0827	N18	E46	.721	17168	29.8	16D	-N	1				
	KHAR	26	0825E	0825	0850D	N17	E46	.719	17168	29.8	25D	-N	P	0830	120	1.8	
	CATA	26	0830E	0830	0835D	N08	E45	.702	17168	29.7	5D	-F	2 P	0830	56	.8	
104	KHAR	26	0838E	0840	0843D	S18	E48	.804	17167	30.0	5D	-F	V	0838			D
GRP881	05	26	0858+4	0901+2	0910	S18	E50	.822	17167	30.1	12	-N			60	1.0	D
	ABST	26	0858	0902	0912D	S20	E51	.838	17167	30.2	14D	-N	P	0902	87	1.6	D
	KHAR	26	0859E	0901	0907D	S17	E50	.818	17167	30.1	8D	-F	P	0859	40	.7	D
	PURP	26	0902	0903	0908	S18	E49	.813	17167	30.1	6	-N	C				
GRP881	06	26	0943E	0944+2	1002	N04	W63	.889	17160	21.7	19	-F					D
	KHAR	26	0943E	0944	0957D	N05	W60	.863	17160	21.9	14D	-F	V	0944			D
	ABST	26	0944E	0946	1002	N03	W67	.919	17160	21.4	18D	-F	P	0946	87		D
107	KHAR	26	0945E	0945	0950D	S16	E44	.757	17167	29.7	5D	-F	V	0945			D
108	KHAR	26	1033E	1037	1053D	S19	E44	.772	17167	29.7	20D	-F	V	1037			D
		26	1046	1054	NO FLARE PATROL												
109	KHAR	26	1114E	1114	1124D	S16	E44	.757	17167	29.8	10D	-F	P				D
GRP881	10	26	1140	1148	1207	N17	W59	.852	17145	22.1	27	-F					
	RAMY	26	1140	1148	1207	N18	W58	.843	17145	22.1	27	-F	3 C		88		
	KHAR	26	1144E		1151D	N16	W61	.868	17145	21.9	7D	-F	P				
111	RAMY	26	1247	1250	1253	S05	E39	.652	17164	29.5	6	-N	3 C		39		
112	RAMY	26	1444	1444	1449	S07	E42	.697	17164	29.8	5	-F	3 C		27		
113	RAMY	26	1512	1521	1540	S16	E43	.747	17167	29.9	28	-F	3 C		54		
GRP881	14	26	1521+1	1522	1529	N18	E83	.988	17173	2.9	8	-F					D
	RAMY	26	1521	1522	1528	N18	E77	.968	17173	2.4	7	-F	3 C				
	HUAN	26	1522		1529	N18	E90	.999	17173	3.4	7	-F	1 C	1525	20		D
115	RAMY	26	1603	1604	1609	N12	E42	.665	17169	29.8	6	-F	3 C		85		
GRP881	16	26	1747+1	1750+0	1827	S15	E43	.742	17167	30.0	40	-F			100	1.5	
	PALE	26	1747	1750	1818	S16	E43	.747	17167	30.0	31	-F	3 C		134		
	BIGB	26	1748	1750	1835	S15	E43	.742	17167	30.0	47	-F	3 C	1750	70	.7	
117	CULG	26	2115	2119	2211	S15	E40	.711	17167	29.9	56	-N	C	2119	100	1.4	
118	CULG	26	2200	2202	2208	N20	W61	.870	17145	22.3	8	-N	C	2202	30	.6	
119	CULG	26	2258	2301	2310	S07	E33	.584	17164	29.4	12	-F	C	2301	20	.3	
120	CULG	26	2301	2312	2327	N17	W65	.900	17145	22.1	26	-F	C	2312	40	1.0	
121	CULG	26	2306	2309	2319	S19	E37	.704	17167	29.7	13	-F	C	2309	40	.6	
122	CULG	26	2315	2317	2323	N05	W71	.943	17160	21.6	8	-F	C	2317	40	1.0	
123	CULG	26	2321	2333	2355	S20	E35	.691	17167	29.6	34	-F	C	2333	70	1.0	H
124	CULG	27	0000	0015	0031	S14	E38	.683	17167	29.8	31	-N	C	0015	80	1.1	
125	CULG	27	0006	0008	0017	S14	W23	.514	17155	25.3	11	-F	C	0008	60	.9	H
126	CULG	27	0056	0100	0104	N19	W62	.877	17145	22.4	8	-F	C	0100	40	.8	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale			Dur (Min)	Imp	Obs Type	Area Measurement		Remarks
							Gen Dist	Plage Region	OMP Day				Time (UT)	Appar (Disk)	
GRP88127	27	0119+1	0121+2	0129	N18	W62	.877	17145	22.4	10	-B		60	1.3	D
CULG	27	0119	0122	0129	N19	W62	.877	17145	22.4	10	-B	C 0122	80	1.7	
PEKG	27	0120	0123	0128	N18	W63	.885	17145	22.3	8	-B	C 0123	63	1.4	D
MANI	27	0120	0121U	0125D	N18	W62	.786	17145	22.4	5D	-N	1 V	12	.2	
128 CULG	27	0134	0138	0143	S20	E34	.681	17167	29.6	9	-F	C 0138	60	.8	T
GRP88129	27	0149+9	0200+3 0227	0238	S17	E36	.680	17167	29.8	49	-N				FK
CULG	27	0149	0203	0244	S17	E36	.680	17167	29.8	55	1N	C 0203	210	2.7	FKT
PEKG	27	0156	0200	0217	S15	E37	.678	17167	29.9	21	-N	P 0200	134	1.9	F
MANI	27	0158	0200U	0203D	S14	E38	.683	17167	29.9	5D	-F	1 V	20	.3	F
PEKG	27	0225	0227	0232	S19	E34	.674	17167	29.7	7	-N	P 0226	34	.5	D
130 CULG	27	0204	0209	0233	N17	W65	.900	17145	22.2	29	-N	C 0209	40	.9	FK
131 CULG	27	0242	0246	0255	S19	E41	.743	17167	30.2	13	-N	C 0246	60	.9	
GRP88132	27	0254>9	0258 0306+6	0326	N22	E74	.954	17173	2.7	32	-N				
CULG	27	0254	0258	0318	N22	E77	.968	17173	2.9	24	1N	C 0258	70		F
PEKG	27	0302	0306	0326	N22	E73	.949	17173	2.6	24	-F	P 0306	17		D
YUNN	27	0310	0312	0329	N20	E74	.954	17173	2.7	19	-N	C	64		
133 CULG	27	0312	0314	0323	S19	E34	.674	17167	29.7	11	-F	C 0314	50	.6	T
134 CULG	27	0356	0404	0414	N10	E38	.611	17169	30.0	18	-F	C 0404	60	.8	
135 CULG	27	0408	0427	0506	S16	E38	.695	17167	30.0	58	-N	C 0427	80	1.1	
136 CULG	27	0409	0417	0428	N13	E87	.997	17174	3.7	19	-F	C 0417	40		
137 CULG	27	0421	0424	0431	N14	W76	.965	17145	21.5	10	-F	C 0424	30		
GRP88138	27	0446>9	0459 0530	0600	S19	E48	.808	17171	30.8	74	-N				DJ
CULG	27	0446	0459	0637	S19	E48	.808	17171	30.8	111	-F	C 0459	40	.7	
ABST	27	0528	0530	0553	S19	E44	.772	17171	30.5	25	-N	C 0530	87	1.4	DJ
YUNN	27	0549	0551	0600	S18	E48	.804	17171	30.8	11	-N	C	48	.8	
GRP88139	27	0630+5	0634 0651+4	0748	S17	E42	.742	17167	30.4	78	1N		250	3.7	FJ
ATHN	27	0630E	0634	0718	S18	E48	.804	17167	30.9	48D	1N	* V 0634	143	2.4	
ABST	27	0635	0651	0800	S17	E40	.722	17167	30.3	85	1N	P 0651	262	3.8	FJ
CATA	27	0645	0655	0810	S16	E42	.737	17167	30.4	85	1F	* C 0655	253	3.8	T
YUNN	27	0656E	0656	0656D	S18	E44	.767	17167	30.6		-N	* P	96	1.5	E
WEND	27	0706E		0736	S17	E40	.722	17167	30.3	30D	-N	C 0706	94	1.3	FT
140 KHAR	27	0856E	0859	0919D	S17	E45	.772	17171	30.7	23D	-F	P 0859	60	1.1	
141 KHAR	27	0856E		0859D	N13	E80	.981	17174	3.4	3D	-F	P			D
142 KHAR	27	0902E	0902	0916D	S15	E35	.656	17167	30.0	14D	-F	P 0902	50	.7	E
143 KHAR	27	0919E		0919D	S06	E29	.525	17164	29.6		-F	P			E
144 HTPR	27	0959	1001	1023	S15	E34	.645	17167	30.0	24	-F	C 1001	30	.4	
145 HTPR	27	1053	1055	1105	S18	E34	.666	17167	30.0	12	-F	C 1055	10	.1	
146 HTPR	27	1108		1110D	N13	E90	1.000	17174	4.2	2D	-N	C 1110	30		
147 HTPR	27	1146		1201D	S20	E31	.652	17167	29.8	15D	-F	C 1156	20	.2	
GRP88148	27	1348+3	1353+1	1400	S18	E43	.757	17171	30.8	12	-N				D
HTPR	27	1348		1349D	S19	E44	.772	17171	30.9	1D	-N	C 1349	100	1.4	
HUAN	27	1350	1354	1357	S17	E44	.762	17171	30.9	7	-N	1 C 1354	25	.4	D
WEND	27	1351	1353	1400	S19	E41	.743	17171	30.7	9	-N	C 1353	38	.5	
RAMY	27	1353E	1353U	1403	S17	E42	.742	17171	30.7	10D	-B	3 C	81		

H - ALPHA SOLAR FLARES

SEPTEMBER 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Omd	Hale			Dur (Min)	Imp	Obs Type	Area Measurement		Remarks		
							Cent Dist	Plage Region	CMP Day				Time (UT)	Appar (Disk)		Corr (Sq Deg)	
GRP88149	27	1432+1	1439	1453	N17	W75	.960	17145	22.0	21	+						
WEND	27	1432E		1454D	N19	W77	.968	17145	21.8	22D	+	C	1436	31			
RAMY	27	1433	1439	1451	N15	W73	.950	17145	22.1	18	+	3 C					
GRP88150	27	1458+2	1500	1515	S19	E28	.614	17167	29.7	17	+			50	.6	E	
RAMY	27	1458	1500	1513	S19	E30	.633	17167	29.9	15	+	3 C		65			
WEND	27	1500		1517	S20	E27	.613	17167	29.6	17	+	C	1502	44	.5	E	
151	WEND	27	1602		1614D	N14	E76	.965	17174	3.4	12D	+	C	1608	13		
152	RAMY	27	1630	1635	1648	S18	E34	.666	17167	30.2	18	+	3 C		23		
153	HUAN	27	1711E		1717D	N15	W85	.993	17145	21.3	6D	+	1 P				
		27	1757	1758	NO FLARE PATROL												
		27	1819	2110	NO FLARE PATROL												
GRP88154	27	2139	2148+1	2205	N15	E74	.955	17174	3.5	26	+					F	
CULG	27	2139	2149	2205	N14	E72	.945	17174	3.3	26	+	C	2149	80		F	
PALE	27	2142E	2148U	2155D	N16	E76	.965	17174	3.6	13D	+	3 C		3			
GRP88155	27	2310	2316+0	2325	S19	E24	.575	17167	29.8	15	+			20	.3	D	
CULG	27	2310	2316	2322	S20	E23	.576	17167	29.7	12	+	C	2316	50	.7		
PALE	27	2315E	2316U	2317D	S18	E26	.584	17167	29.9	2D	+	3 C		8			
PEKG	27	2317E	2317	2327	S19	E24	.575	17167	29.8	10D	+	P	2317	21	.3	D	
156	PEKG	27	2317E	2317	2317D	N17	W85	.993	17145	21.6		+	P	2317	42		D
		27	2328	2334	NO FLARE PATROL												
157	CULG	28	0026	0031	0037	S10	E38	.662	17164	30.9	11	+	C	0031	60	.8	
158	CULG	28	0029	0034	0036	N17	W90	.999	17145	21.3	7	+	C	0034	30		K
159	CULG	28	0218	0230	0245	N12	E70	.934	17174	3.3	27	1F	C	0230	120		
160	CULG	28	0256	0305	0315	N17	W86	.995	17145	21.7	19	+	C	0305	40		T
161	CULG	28	0335	0338	0340	S21	E22	.577	17167	29.8	5	-N	C	0338	60	.8	
162	CULG	28	0342	0345	0421	N10	E70	.935	17174	3.4	39	1F	C	0345	120		FK
163	CULG	28	0551	0604	0607	S31	E01	.614	17166	28.3	16	-N	C	0604	80	1.0	
164	ABST	28	0555E	0559	0613	N06	W44	.691	17154	24.9	18D	-N	P	0559	122	1.7	EJ
165	ABST	28	0621	0630	0659D	N07	E60	.862		2.8	38D	-N	P	0630	87	1.8	DJ
166	ABST	28	0623	0629	0640	N13	E67	.914	17174	3.3	17	?F	C	0629	87		D
			IMP.1 NO : TACH CATA														
GRP88167	28	0652E	0654 0702	0921	N15	E76	.965	17174	4.0	149	?N						
		IMP.1 NO : ABST CATA WEND															
ATHN	28	0652E	0654	0727	N18	E75	.960	17174	3.9	35D	1N	3 V	0654	80	2.9		
ATHN	28	0658	0702	0921	N12	E78	.974	17174	4.1	143	1N	3 V	0702	64	2.3		
168	WEND	28	0740E		0754	S31	E01	.614	17166	28.4	14D	+	C	0744	50	.6	
GRP88169	28	0804+6	0806 0815	0901	N18	E64	.893	17173	3.1	57	-N						DJK
ABST	28	0804	0806	0848	N18	E68	.921	17173	3.4	44	1N	C	0806	87		DJK	
CATA	28	0810	0815	0830D	N19	E64	.893	17173	3.1	20D	+	2 P	0815	39	.9		
ATHN	28	0839	0841	0913	N18	E62	.877	17173	3.0	34	-N	3 V	0841	48	1.0		
GRP88170	28	1030+0	1030+3	1041	N18	W07	.226	17159	27.9	11	-N			60	.6	E	
CATA	28	1030E	1030	1040	N19	W07	.241	17159	27.9	10D	+	2 P	1030	67	.7		
HTPR	28	1030	1031	1040	N18	W08	.235	17159	27.8	10	-N	C	1031	50	.5	E	
WEND	28	1031E		1042D	N20	W07	.255	17159	27.9	11D	+	C	1033	13	.1		
ATHN	28	1031E	1033	1047	N17	W16	.319	17159	27.2	16D	-B	3 V	1033	111	1.3		

H - ALPHA SOLAR FLARES

SEPTEMBER 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale Cen Dist	Hale Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks	
171	WEND	28	1130	1134	1142	N07	E12	.206	17169	29.4	12	-N	C	1134	19	.2	
GRP88172	28	1405+5	1413	1438	N20	W09	.272	17159	27.9	33	-N			120	1.2		
			1420+0														
	HTPR	28	1405	1413	1438	N18	W09	.245	17159	27.9	33	-N	C	1413	140	1.4	E
	RAMY	28	1409	1420	1427	N20	W14	.324	17159	27.5	18	-N	3 C		88		
	WEND	28	1410	1420	1446	N20	W08	.263	17159	28.0	36	-N	C	1420	163	1.8	F
173	HTPR	28	1509E		1518	S19	E17	.512	17167	29.9	90	-F	C	1511	30	.3	
174	HTPR	28	1524		1538D	N17	E14	.293	17168	29.7	140	-F	C	1535	20	.2	E
		28	1625	1705	NO FLARE PATROL												
175	RAMY	28	1627	1629	1640	N16	E61	.869	17174	3.3	13	-B	3 C		73		D
		28	1943	2037	NO FLARE PATROL												
176	HOLL	28	2054	2101	2115	S18	E17	.500	17167	30.1	21	-F	3 C		51		
177	CULG	28	2129	2131	2139	S14	E03	.360	17164	29.1	10	-N	C	2131	60	.7	T
		28	2154	2203	NO FLARE PATROL												
178	CULG	28	2238	2242	2251	N13	E46	.715	17173	2.4	13	1B	C	2242	140	2.0	
179	CULG	28	2303	2313	2330	S32	W10	.643	17166	28.2	27	-F	C	2313	40	.5	
180	VORO	29	0002	0005	0011	S33	W09	.652	17166	28.3	9	-F	C	0005	81	.9	D
181	PEKG	29	0823	0825	0831	N15	E62	.877	17174	4.0	8	-F	C	0825	13	.3	D
182	ABST	29	0836E	0842	0958D	S17	E10	.435	17167	30.1	82D	-F	P	0842	87	1.0	D
GRP88183	29	1255+3	1310+0	1328	S31	W14	.644	17166	28.5	33	-N				50	.7	
	RAMY	29	1255	1310	1338	S32	W13	.653	17166	28.6	43	-N	3 C		68		
	WEND	29	1256	1310	1316	S30	W15	.637	17166	28.4	20	-N	C	1310	38	.5	
	KANZ	29	1258	1310	1318	S32	W14	.657	17166	28.5	20	-F	1				
	HOLL	29	1338E	1338U	1347	S31	W17	.658	17166	28.3	90	-F	3 C		25		
GRP88184	29	1331+3	1334+0	1350	N19	W25	.457	17159	27.7	19	-F						
	HOLL	29	1331	1334	1358	N19	W25	.457	17159	27.7	27	-F	3 C		33		
	KANZ	29	1334	1334	1342	N19	W25	.457	17159	27.7	8	-F	1				
185	HOLL	29	1346	1357	1413	N16	E58	.843	17174	3.9	27	-F	3 C		69		
GRP88186	29	1654+0	1656+0	1715	S16	E04	.393	17167	30.0	21	-F				110	1.2	D
			1702														
	RAMY	29	1654	1656	1712	S16	E04	.393	17167	30.0	18	-F	3 C		96		
	HOLL	29	1654	1656	1720	S16	E04	.393	17167	30.0	26	-N	3 C		117		
	PALE	29	1700E	1702U	1715	S15	E03	.375	17167	29.9	15D	-F	3 C		15		D
GRP88187	29	2214+7	2231+3	0007	S16	W02	.389	17167	29.8	113	1N						FIU
			2332+2														
	CULG	29	2214	2234	0008U	S15	W02	.374	17167	29.8	114D	2B	C	2234	680	7.5	FI
	BIGB	29	2221	2231	0024	S15	W01	.372	17167	29.9	123	-N	3 C	2231	130	1.3	
	MITK	29	2312E		0005	S18	W02	.421	17167	29.8	53D	1N	C	2313	190	2.2	FU
	PURP	29	2318	2334	0003	S16	W02	.389	17167	29.8	45	1N	C				
	HOLL	29	2330E	2332	2334D	S22	E01	.482	17167	30.1	4D	-B	3 C		115		
188	CULG	29	2301E	2301U	2316	N15	E46	.717	17174	3.4	15D	-N	P	2301	30	.4	
GRP88189	29	2328+6	2334+4	2351	N07	W04	.069	17169	29.7	23	-F						E
	CULG	29	2328	2334	2352	N08	W05	.089	17169	29.6	24	-F	C	2334	60	.6	
	PURP	29	2334	2338	2349	N07	W03	.052	17169	29.8	15	-N	C				E
190	CULG	29	2346	2355U	0021	N20	E62	.878	17174	4.6	35	-F	C	2355	60	1.2	
191	CULG	30	0027	0030	0039	S05	W01	.205	17164	29.9	12	-F	C	0030	40	.4	
192	LEAR	30	0234	0235	0238	N14	E44	.692	17174	3.4	4	-F	3 C		43		

H - ALPHA SOLAR FLARES

SEPTEMBER 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Cmd	Hale Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP88193	30	0241	0246 0308	0339	N16	E50	.763	17174	3.9	58	-F					F
CULG	30	0241	0246	0305	N18	E51	.776	17174	3.9	24	-F	C	0246	60	1.0	T
CULG	30	0302	0308	0339	N15	E50	.762	17174	3.9	37	-F	* C	0308	40	.6	F
GRP88194	30	0247+1	0254+6	0312	N13	W06	.149	17169	29.7	25	-N			60	.6	E
CULG	30	0234	0257	0320	N14	W07	.173	17169	29.6	46	-N	* C	0257	60	.6	
PURP	30	0247	0300	0308	N13	W06	.149	17169	29.7	21	-N	* C				E
VORO	30	0248	0254	0308	N11	W06	.127	17169	29.7	20	-N	* C	0254	68	.7	E
LEAR	30	0256	0257	0315	N13	W06	.149	17169	29.7	19	-F	* C		58		
195 CULG	30	0254	0256	0303	S05	W02	.207	17164	30.0	9	-F	C	0256	40	.4	
GRP88196	30	0338+9	0343+6	0405	S14	W02	.356	17167	30.0	27	-F			30	.3	D
CULG	30	0338	0348	0437	S13	W02	.340	17167	30.0	59	-F	* C	0348	50	.5	
VORO	30	0342	0343	0347	S14	W02	.356	17167	30.0	5	-F	* C	0343	27	.3	D
LEAR	30	0349	0349	0405	S14	W01	.355	17167	30.1	16	-F	* C		21		
GRP88197	30	0340+2	0342+4	0349	N21	E33	.573	17173	2.6	9	-F					
CULG	30	0340	0346	0351U	N22	E33	.578	17173	2.6	11D	-F	C	0346	80	1.0	
LEAR	30	0342	0342	0347	N21	E33	.573	17173	2.6	5	-F	3 C		21		
198 CULG	30	0342	0345	0348	S05	W02	.207	17164	30.0	6	-F	C	0345	40	.4	
199 CULG	30	0401	0405	0432	N14	W08	.185	17169	29.6	31	-F	C	0405	60	.6	
GRP88200	30	0412+9	0437+7 0455	0511	N14	E46	.716	17174	3.6	59	-N			80	1.2	
CULG	30	0412	0444	0511D	N14	E46	.716	17174	3.6	59D	-N	C	0444	100	1.5	FT
PEKG	30	0430	0437	0442	N15	E47	.729	17174	3.7	12	-N	C	0437	71	1.0	E
PURP	30	0453	0455	0546	N13	E46	.715	17174	3.7	53	1N	* C				
201 CULG	30	0437	0443	0450	S30	W26	.700	17166	28.2	13	-F	C	0443	20	.3	
202 CULG	30	0438	0443	0455	N18	W35	.586	17159	27.6	17	-F	C	0443	40	.5	
203 PEKG	30	0526	0536	0550	N14	E48	.739	17174	3.8	24	-N	* C	0536	126	2.0	E
GRP88204	30	0551+5	0600+1	0606	N14	E44	.692	17174	3.5	15	-F			50	.7	
CULG	30	0551	0601	0610	N14	E43	.680	17174	3.5	19	-F	C	0601	50	.7	T
YUNN	30	0556	0600	0602	N14	E46	.716	17174	3.7	6	-N	C		64		
205 CULG	30	0626	0628	0637	N13	E44	.691	17174	3.6	11	-N	C	0628	40	.6	T
GRP88206	30	0647+5	0659	0713	N13	E81	.984	17177	6.4	26	-N			35		
YUNN	30	0647	0658	0658D	N12	E82	.987	17177	6.4	11D	-N	P		32		
HTRP	30	0652	0659	0713	N14	E80	.981	17177	6.3	21	-N	C	0659	40		
207 CULG	30	0706	0709	0716	S18	E00	.419	17167	30.3	10	-F	C	0709	80	.8	
GRP88208	30	0742+3	0744+4	0753	N13	E44	.691	17174	3.6	11	-N					DJ
HTRP	30	0742	0744	0751	N13	E43	.679	17174	3.5	9	-N	C	0744	30	.4	
ABST	30	0743	0745	0752	N12	E45	.703	17174	3.7	9	-N	C	0745	87	1.2	DJ
PEKG	30	0744	0746	0752	N13	E43	.679	17174	3.5	8	-N	P	0746	37	.5	D
LEAR	30	0744	0745	0754	N12	E44	.691	17174	3.6	10	-N	3 C		48		
CATA	30	0745	0745	0750D	N13	E44	.691	17174	3.6	5D	-F	2 P	0745	28	.4	
ATHN	30	0746E	0748	0758	N13	E48	.739	17174	3.9	12D	-B	3 V	0748	80	1.2	
GRP88209	30	0956+4	0957+3	1025	S18	E04	.424	17171	30.7	29	-N			70	.8	E
HTRP	30	0956	0957	1025	S18	E03	.422	17171	30.6	29	-N	C	0957	70	.7	E
YUNN	30	0958	1011	1011D	S18	E04	.424	17171	30.7	13D	-N	P		32	.4	
CATA	30	1000	1000	1015D	S18	E04	.424	17171	30.7	15D	-F	2 P	1000	84	.9	
	30	1048	1049	NO FLARE PATROL												
GRP88210	30	1140+9	1150+1	1159	N13	E41	.654	17174	3.6	19	-B			130	1.7	E
CATA	30	1140	1145	1145D	N12	E41	.653	17174	3.6	5D	-F	2 P	1145	56	.8	
HTRP	30	1143	1150	1159	N13	E42	.666	17174	3.6	16	-B	C	1150	130	1.7	E
RAMY	30	1149	1151	1153D	N15	E41	.656	17174	3.6	4D	-B	3 C		147		
211 RAMY	30	1256	1259	1302	N16	W40	.646	17159	27.5	6	-F	3 C		26		

H - ALPHA SOLAR FLARES

SEPTEMBER 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	Cmd	Hale Cen Dist	Plage Region	OMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks	
212	RAMY	30	1303	1315	1318	N16	W40	.646	17159	27.5	15	-F	3	C		25	
GRP88213	30	1404E		1436	N15	E42	.669	17174	3.7	32	-F				70	1.0	E
	HTPR	30	1404E		1425	N15	E41	.656	17174	3.7	21D	-N	C	1412	70	.9	E
	HOLL	30	1417E	1417U	1446	N16	E43	.683	17174	3.8	29D	-F	3	C	79		
214	HTPR	30	1522E		1535D	S19	E01	.435	17171	30.7	13D	-N	C	1522	20	.2	
GRP88215	30	1800+4	1813+9	2025	N16	E39	.633	17174	3.7	145	2B				450	5.9	
	HOLL	30	1800	1815	2020	N19	E43	.689	17174	4.0	140	1B	3	C		259	
	PALE	30	1804	1821	1843D	N16	E38	.620	17174	3.6	39D	2B	2	C		449	
	RAMY	30	1804	1818	1959D	N17	E38	.622	17174	3.6	115D	2B	3	C		570	
	HOLL	30	1805E	1813U	1832D	N17	E38	.622	17174	3.6	27D	1B	3	C		450	
	BIGB	30	1812	1822	2030	N15	E40	.644	17174	3.8	138	1B	3	C	1822	250	3.4
216	HOLL	30	1930	1932	1937	S16	W08	.408	17167	30.2	7	-F	3	C		26	
217	BIGB	30	2042	2043	2046	N14	E37	.603	17174	3.6	4	-B	3	C	2043	40	.5
218	CULG	30	2114	2117	2132	N23	E27	.509	17173	2.9	18	-N	C	2117	80	.9	

"Remarks":

- | | |
|--|--|
| <p>A = Eruptive prominence whose base is less than 90° from central meridian.
 B = Probably the end of a more important flare.
 C = Invisible 10 minutes before.
 D = Brilliant point.
 E = Two or more brilliant points.
 F = Several eruptive centers.
 G = No visible spots in the neighborhood.
 H = Flare accompanied by high-speed dark filament.
 I = Active region very extended.
 J = Distinct variations of plage intensity before or after the flare.
 K = Several intensity maxima.
 L = Existing filaments show signs of sudden activity.
 M = White-light flare.
 N = Continuous spectrum shows effects of polarization.</p> | <p>O = Observations have been made in the H and K lines of Call.
 P = Flare shows helium D3 in emission.
 Q = Flare shows Balmer continuum in emission.
 R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
 S = Brightness follows disappearance of filament in same position.
 T = Region active all day.
 U = Two bright branches, parallel or converging.
 V = Occurrence of an explosive phase: important, expansion within roughly 1 minute that often includes a significant intensity increase.
 W = Great increase in area after time of maximum intensity.
 X = Unusually wide H-alpha line.
 Y = System of loop-type prominences.
 Z = Major sunspot umbra covered by flare.</p> |
|--|--|

The 4-digit number appearing under "Remarks" denotes the calcium plage region number assigned by the Space Environment Services Center in Boulder, Colorado.

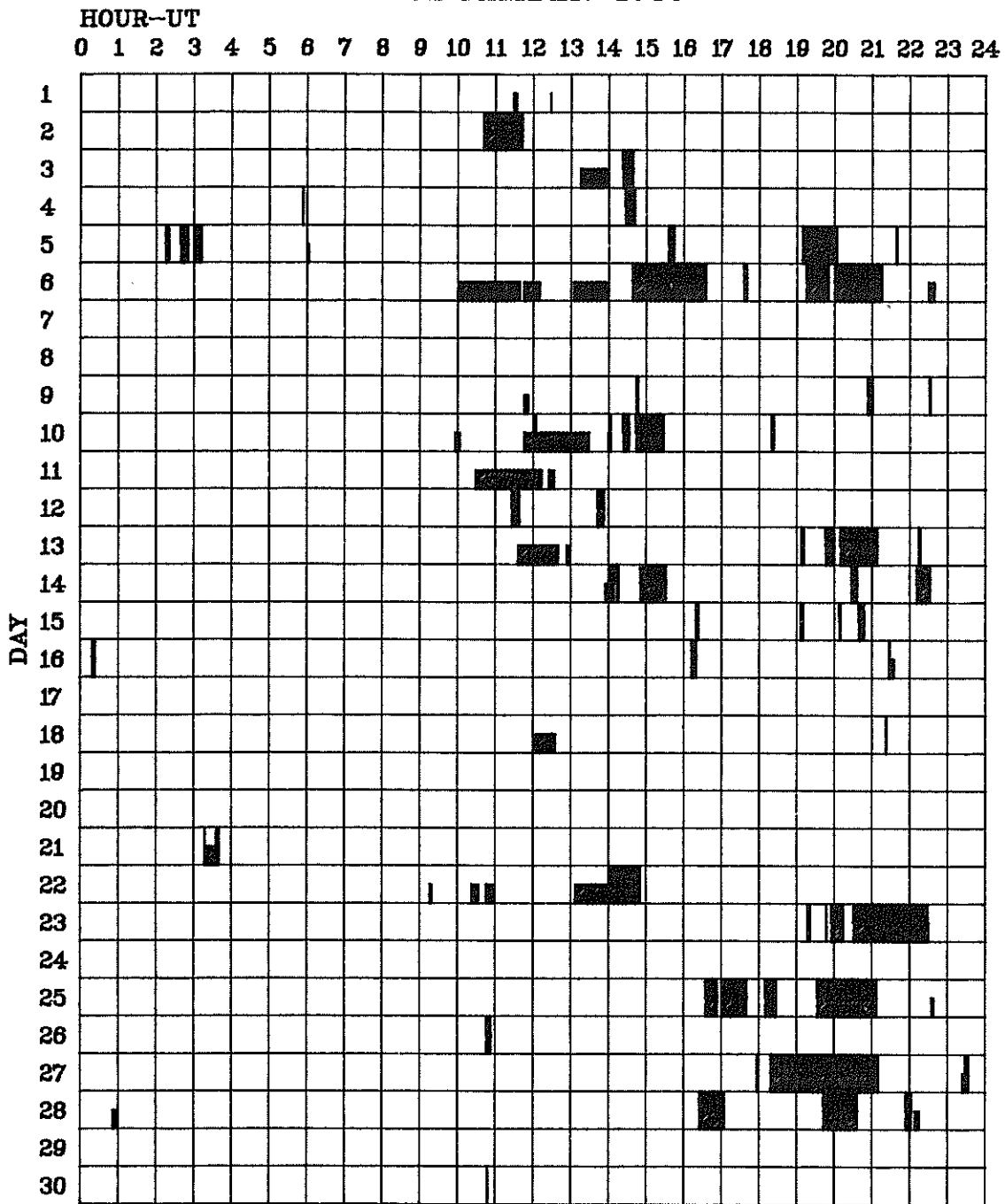
DAILY FLARE INDICES
(Includes all Flares)

September 1980

Day	Flare Index*	Hours Observed	Day	Flare Index*	Hours Observed	Day	Flare Index*	Hours Observed
01	307.13	23.9	11	161.76	24.0	21	74.22	23.9
02	248.74	23.0	12	133.63	23.6	22	121.80	23.2
03	266.69	23.7	13	71.34	22.6	23	169.92	21.6
04	461.88	23.7	14	91.71	22.6	24	124.08	24.0
05	140.22	22.4	15	96.74	23.6	25	104.87	21.1
06	117.31	20.1	16	97.24	23.7	26	61.06	23.9
07	113.74	24.0	17	138.12	24.0	27	90.61	21.0
08	278.19	24.0	18	80.13	24.0	28	81.32	22.3
09	84.84	23.7	19	93.48	24.0	29	54.57	24.0
10	39.35	22.9	20	136.23	24.0	30	197.30	24.0

*When no flare index is given, it is zero for that day.

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE SEPTEMBER 1980

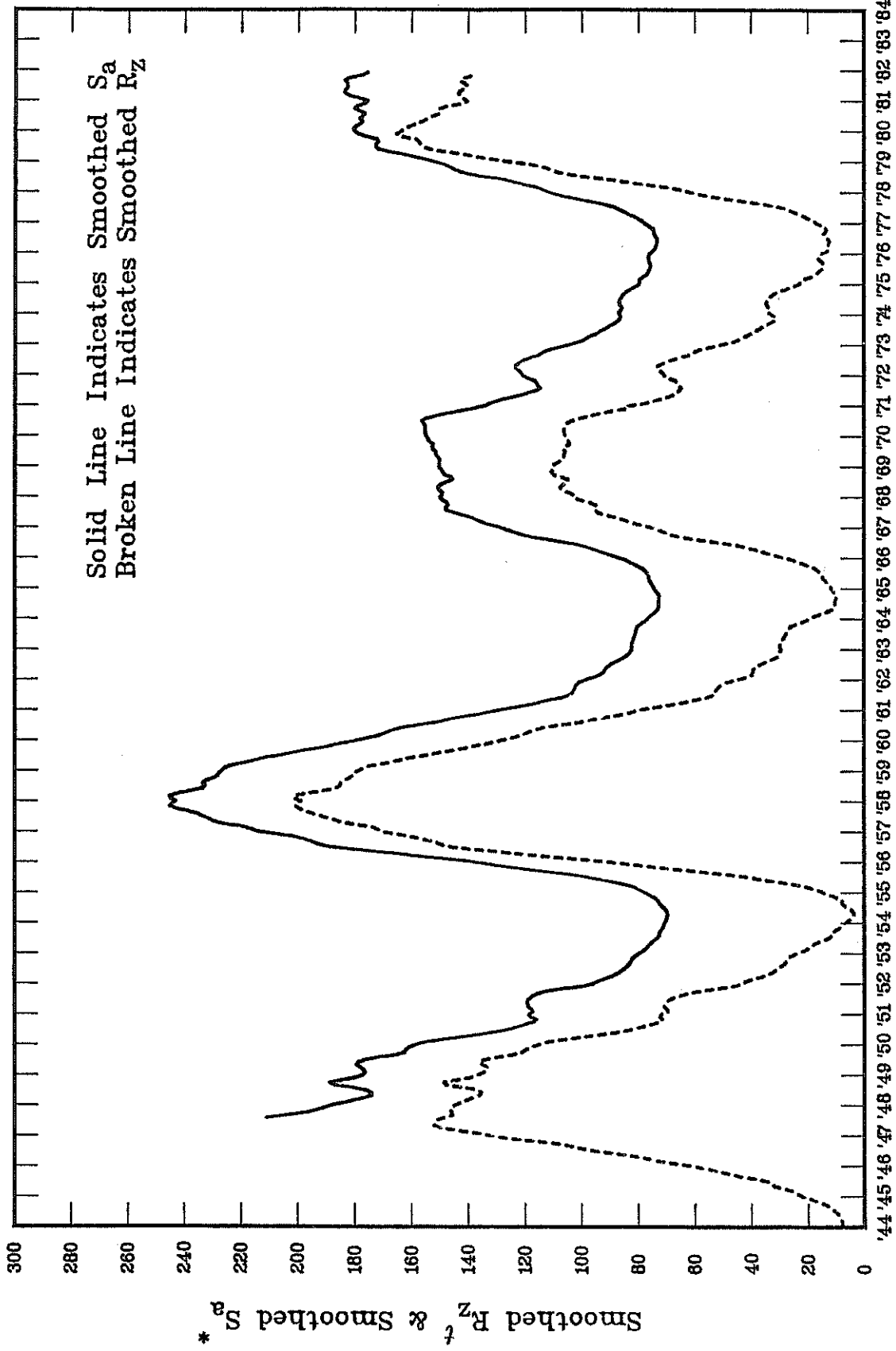


Observatories included in total patrol:

Abastumani	Catania	Huancayo	Lvov	Purple Mt.
Athens	Culgoora	Istanbul	Manila	Ramey
Berne	Georgiana	Kanzelhoehe	Mitaka	Tashkent
Big Bear	Haute Provence	Kharkov	Palehua	Voroshilov
Bucharest	Holloman	Learmonth	Peking	Wendelstein
				Yunnan

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

Superposition of Zürich Sunspot Numbers and Ottawa 10.7 cm Flux January 1944 - December 1981



* Solar Flux Units ($10^{-22} \text{ W/m}^2 \text{ Hz}$) Adjusted to 1 A.U., Series D.
 † Reduced Zürich Sunspot Numbers.

SGD 463 Part II (Comprehensive)

MISCELLANEOUS DATA

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ACTIVE REGIONS
CARRINGTON ROTATION 1722
(May 18 to June 14, 1982)

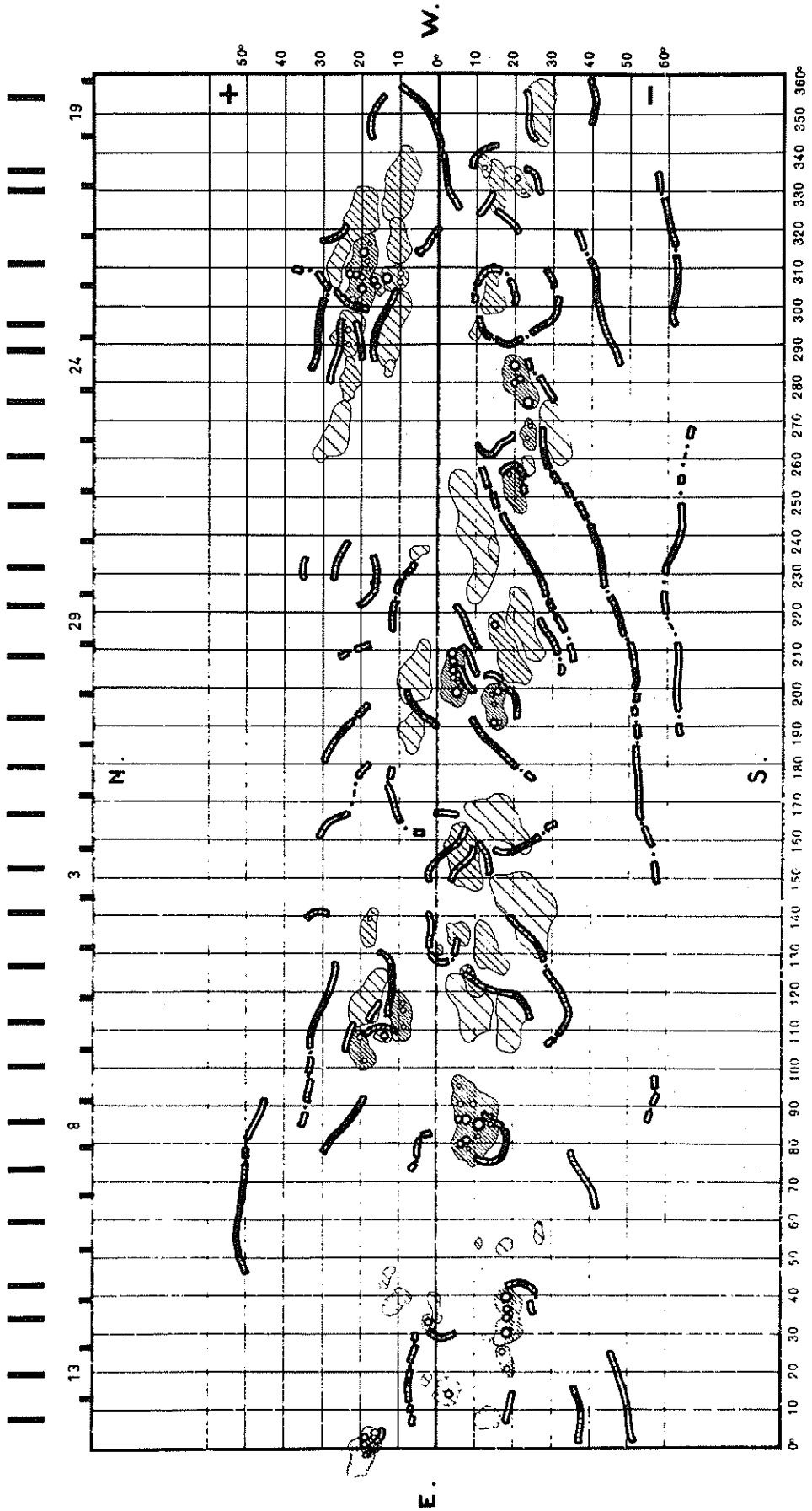
Region No.	Coordinates Lat. Long.	IMP	Age at CMP	Spot- less Region	Region No. in Rotation 1721	Activity at West Limb
1	27°S 350	1	>6	x		dispersed
2	12°S 337	2	>6			decreasing
3	10°N 332	1	>6	x		decreasing
4	20°S 332	2	-2			decreasing
5	15°S 331	1	>6	x	7	dispersed
6	21°N 324	1	>6	x	8	decreasing
7	11°N 317	1	>6	x	9	decreasing
8	4°N 314	1	+5	x		disappeared
9	27°N 312	1	>6	x		decreasing
10	20°N 309	5	>6			decreasing
11	12°N 307	3	>6		12	decreasing
12	13°N 306	2	-2			stable
13	14°S 304	1	>6	x		dispersed
14	13°N 295	1	>6	x		dispersed
15	10°S 294	1	+6	x		dispersed
16	24°N 293	2	>6			decreasing
17	13°N 284	1	-4	x		dispersed
18	23°N 281	1	>6	x		decreasing
19	21°S 280	4	-3			stable
20	24°S 267	2	+3			dispersed
21	23°S 258	1	>6	x		disappeared
22	19°S 252	2	>6			decreasing
23	14°S 237	1	>6	x		decreasing
24	5°N 236	1	-1	x		dispersed
25	22°S 217	1	>6	x	20	dispersed
26	18°S 210	2	>6			decreasing
27	6°N 204	1	>6	x		decreasing
28	4°S 203	4	+5			decreasing
29	15°S 195	3	>6			decreasing
30	7°N 188	1	>6	x		dispersed
31	7°S 155	1	>6	x	33	decreasing
32	18°N 137	2	+5			decreasing
33	6°S 135	1	>6	x		dispersed
34	13°S 131	1	>6	x	41	dispersed
35	0 130	1	>6	x		dispersed
36	9°S 123	2	0			decreasing
37	10°N 113	3	+6			decreasing
38	14°N 108	2	>6			decreasing
39	20°N 104	2	6			dispersed
40	10°S 86	6	6			decreasing
41	27°S 56	1	-1	x		dispersed
42	18°S 52	1	-1	x		disappeared
43	13°N 44	1	+5	x		disappeared
44	10°N 38	1	+5	x		disappeared
45	0 37	1	+5	x		dispersed
46	19°S 34	4	+6			decreasing
47	2°N 33	2	6		53	decreasing
48	14°S 29	1	+5	x		disappeared
49	18°S 23	2	-4			stable
50	3°S 14	2	6		57	dispersed
51	14°S 7	1	6	x		disappeared
52	16°N 1	2	+3			dispersed
53	19°N 0	3	6			decreasing

SYNOPTIC SOLAR MAP

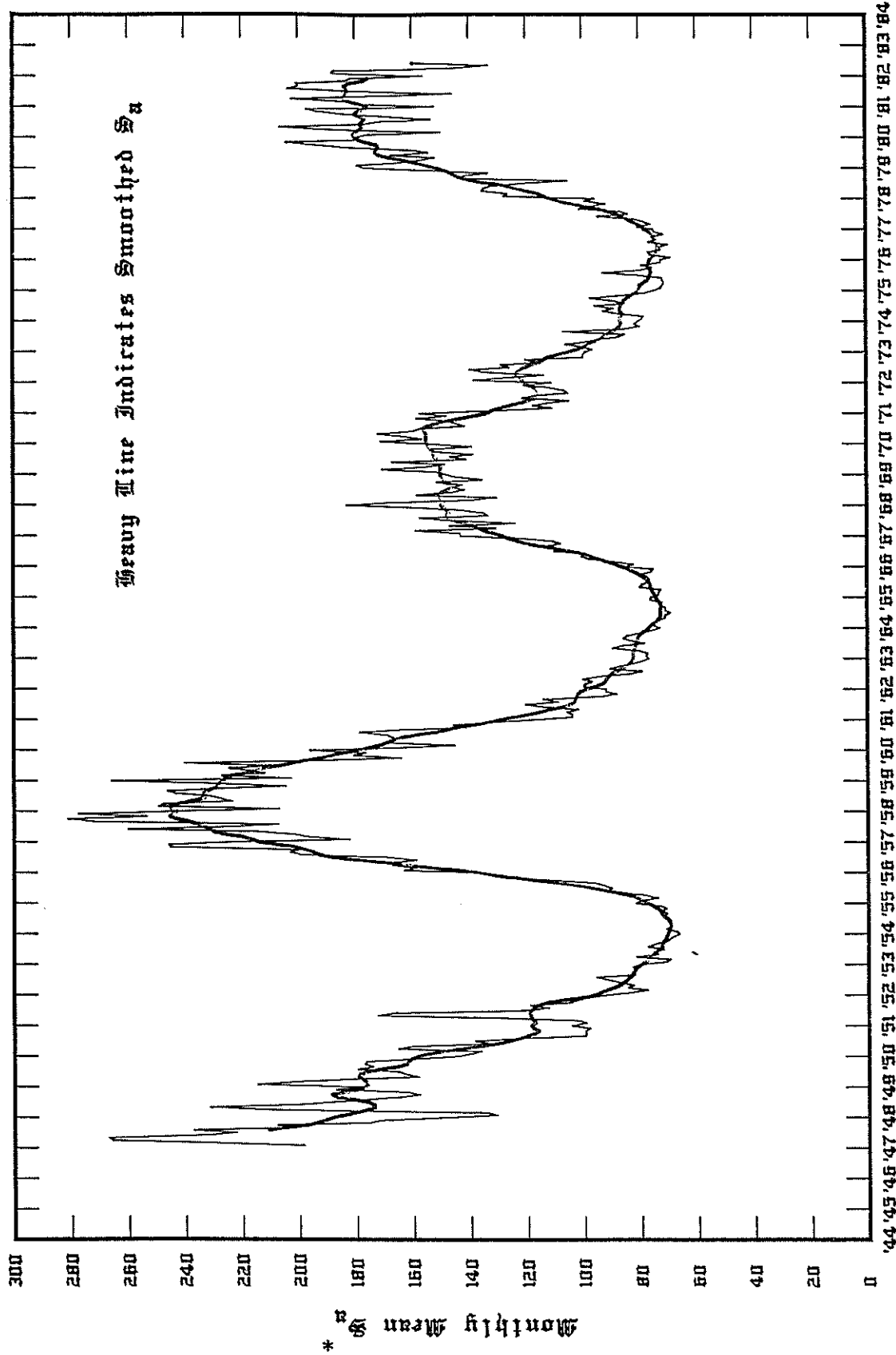
CARRINGTON ROTATION 1722

MAY 18 - JUNE 14, 1982

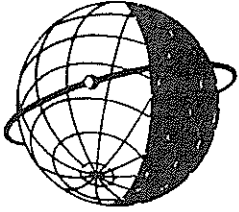
MEUDON OBSERVATORY



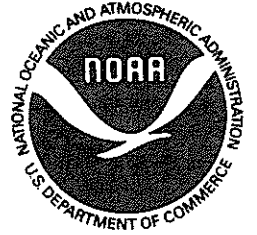
Monthly Mean Ottawa 10.7 cm Solar Radio Flux February 1947 - June 1982



* Solar Flux Units (10^{-22} W/m² Hz) Adjusted to 1 A.U., Series B.



WORLD DATA CENTER A
FOR
SOLAR-TERRESTRIAL PHYSICS



The ICSU Panel on WDCs has recommended that it would be appropriate courtesy to acknowledge in publications that data were obtained from the originating station or investigator through the intermediary of the WDCs. The following statement is suggested:

"Data used in this study were provided by WDC-A for Solar-Terrestrial Physics, NOAA E/GC2, 325 Broadway, Boulder Colorado 80303, USA."